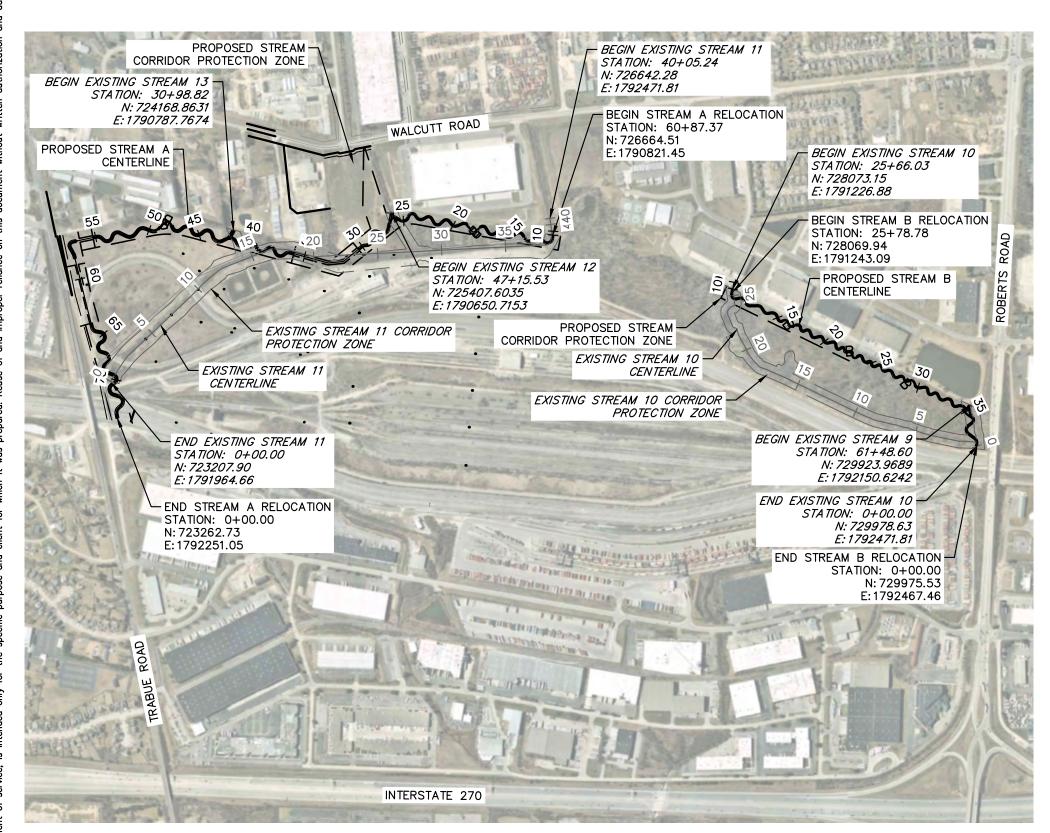
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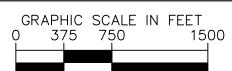
BUCKEYE XO, LLC

BUCKEYE YARD STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS

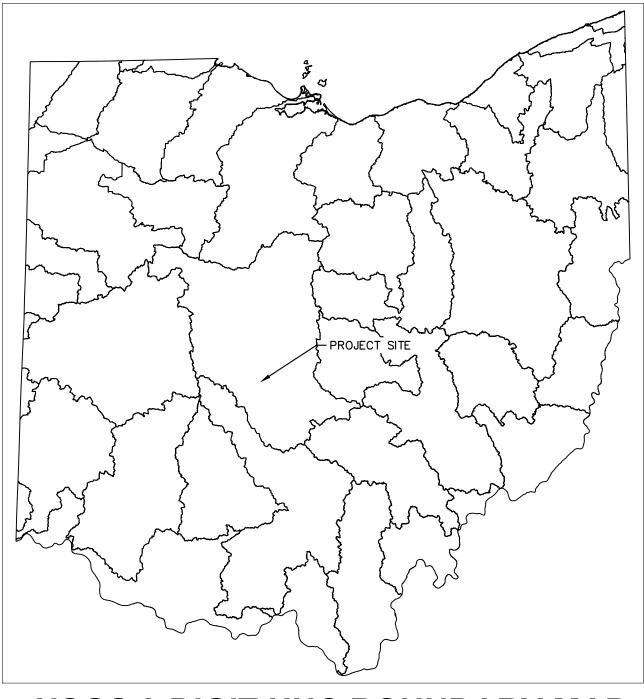
STATE OF OHIO, FRANKLIN COUNTY
CITY OF COLUMBUS
2022



SITE LOCATION MAP







USGS 8-DIGIT HUC BOUNDARY MAP

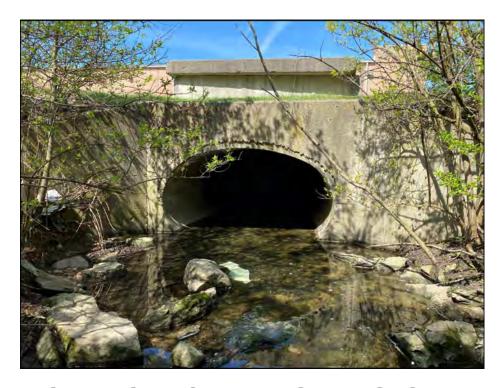
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UPPER PORTION OF EXISTING STREAM 11



LOWER PORTION OF EXISTING STREAM 11



UPPER PORTION OF EXISTING STREAM 10



LOWER PORTION OF EXISTING STREAM 10

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CHECKED BY: JMM

COVER SHEET

REAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO 190118000

SHEET NUMBER

EC0.0

GENERAL NOTES:

THE CONTRACTOR SHALL ONLY CONDUCT BANK AND STREAM BED WORK, INCLUDING ALL IN-STREAM, GRADING BANK STABILIZATION, AND IN-STREAM STRUCTURES ON A SECTION OF STREAM THAT CAN BE ENTIRELY STABILIZED BEFORE MOBILIZING TO A NONADJACENT REACH OF PROPOSED CHANNEL IMPROVEMENTS.

EVERY EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE GAINING ACCESS TO/FROM THE WORK AREA.

THE GRADE LINE ELEVATIONS SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING, ENDING AND AT STRUCTURES AS DIRECTED BY THE DESIGNER IN ORDER TO SECURE A PROPER TIE—IN, SAVE TREES OR TO CREATE A MORE "NATURAL" APPEARANCE. NOTE, FINISHED GRADE ELEVATIONS AS SHOWN IN THE PLANS INCLUDE PLACED TOPSOIL AS DESCRIBED IN THE PLANTING NOTES.

URSURFACE

NO SUBSURFACE DATA IS MADE AVAILABLE TO THE CONTRACTOR FOR THIS PROJECT OTHER THAN THAT PROVIDED IN THE BID MANUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIS OWN SUBSURFACE INVESTIGATIONS AS THEY RELATE TO THIS PROJECT.

SITE /FASEMENT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGED ITEMS DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, EXISTING ROADS, FENCES, SIDEWALKS, LANDSCAPING, CURB AND GUTTER, SEWER LINES, MANHOLES, ETC.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPROVEMENT TO THE ROAD CONDITION, GATES, SIDEWALKS, CURB AND GUTTER, SEWER LINES, MANHOLES AND FENCES, REQUIRED FOR ACCESS DURING CONSTRUCTION.

ANY DRAINAGE TO PUBLIC INFRASTRUCTURE IN THE VICINITY OF THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER. THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT SHALL BE REMOVED AND RETURNED TO THE ORIGINAL CONDITION OR BETTER AT THE END OF USE.

STAGING, STOCKPILES AND HAUL ROAD AREAS

SPECIFIED AREAS SHOWN ON THE PLANS HAVE BEEN ESTABLISHED AS ACCESS AND STAGING AREAS. THE CONTRACTOR SHALL ESTABLISH STOCKPILE AREAS ALONG THE PROJECT, AS NECESSARY, TO CARRY OUT THE WORK. ALL STOCKPILE AREAS MUST BE INSIDE THE LIMITS OF CONSTRUCTION AND APPROVED BY THE DESIGNER. ADDITIONAL STOCKPILE AREAS SHOULD NOT BE LOCATED WITHIN FORESTED AREAS. SILT FENCE SHALL BE REQUIRED IN AREAS WHERE LOOSE SOIL HAS BEEN PLACED IN THE STAGING AND STOCKPILING AREAS.

EXISTING GRADE ELEVATIONS WITHIN THE 100 YEAR FLOODPLAIN SHALL NOT BE RAISED AS PART OF THIS PROJECT UNLESS SHOWN. ANY EXCESS MATERIAL MUST BE TRANSPORTED OFFSITE TO AN APPROPRIATE DISPOSAL AREA.

<u>MATERIALS:</u>

THE UPPER 6" OF TOPSOIL SHALL BE SAVED FROM THOSE AREAS THAT WILL BE DISTURBED BY EXCAVATION, FILL, HAUL ROADS, OR COMPACTION EQUIPMENT. TOPSOIL SHALL BE KEPT SEPARATE FROM ANY SITE SPOIL. UPON COMPLETION OF CONSTRUCTION, TOPSOIL WILL BE SPREAD OVER AREAS TO BE PLANTED. SEE PLANTING NOTES FOR ADDITIONAL INFORMATION.

STREAM BED MATERIAL, DEEMED SUITABLE BY THE DESIGNER, SHALL BE SAVED FROM AREAS OF THE EXISTING STREAM THAT WILL BE IMPACTED BY CONSTRUCTION. THESE AREAS WILL BE FLAGGED BY THE STREAM DESIGNER PRIOR TO THE CONSTRUCTION OF THE PROPOSED STREAM. EXCAVATED BED MATERIALS, (i.e, GRAVEL ROCK AND COARSE SAND) WILL BE UTILIZED IN CLOSE PROXIMITY TO THEIR LOCATION OF EXCAVATION, AND WILL NOT REQUIRE EXTENSIVE HAULING. THIS EXCAVATED BED MATERIAL WILL BE USED IN THE STREAM'S RIFFLES AND IN-STREAM STRUCTURES.

THE REMAINING EXCAVATED MATERIAL, NOT MENTIONED ABOVE, SHALL BE CONSIDERED SITE SPOIL AND BE STOCKPILED SEPARATELY FROM THE ITEMS LISTED ABOVE. APPROPRIATE AMOUNT OF SUITABLE SITE SPOIL SHALL BE SAVED FOR LATER USE AS BACKFILL.

OTHER SITE SPOIL SHALL BE LEGALLY TRANSPORTED OFFSITE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THIS ACTION IS CONDUCTED UNDER AN EROSION CONTROL PERMIT. THE CONTRACTOR SHALL NOTIFY THE OHIO ENVIRONMENTAL PROTECTION AGENCY BEFORE ANY SPOIL IS TRANSPORTED OFFSITE. CONTRACTOR WILL BE REQUIRED TO INFORM THE LAND QUALITY SECTION OF THE LOCATION AND METHOD OF OFFSITE SPOIL DISPOSAL. ALL PERMITS REQUIRED FOR THE OFFSITE DISPOSAL OF SITE SPOIL IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION SURVEY:

THE STREAM CENTERLINE, BREAK LINES SHOWN, CUT AND FILL LINES, AND LIMITS OF DISTURBANCE SHOULD BE SET AND STAKED PER THE DRAWINGS. UPON COMPLETION OF THE CONSTRUCTION STAKING THE DESIGNER MUST INSPECT AND APPROVE THE STAKING BEFORE CONSTRUCTION CAN BEGIN. THE DESIGNER RESERVES THE RIGHT TO ADJUST THE LOCATION OF THE PROPOSED STREAM CENTERLINE, BREAKLINES, CUTLINES OR ANY HAUL ROADS.

TREE PROTECTION:

TREES GREATER THAN 6" DBH OUTSIDE THE CUT LINE ARE NOT TO BE REMOVED WITHOUT THE ENGINEER'S APPROVAL, UNLESS THEY ARE MARKED IN THE PLANS.

CONTRACTOR SHALL PREVENT DAMAGE TO TREES TO REMAIN. IN THE EVENT OF DAMAGE, REPAIR ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM IMMEDIATELY.

• REPAIR ROOTS BY CUTTING OFF DAMAGED AREAS AND PAINTING THEM WITH TREE

- PAINT. SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.

 REPAIR DAMAGE TO BARK BY TRIMMING AROUND DAMAGED AREA, TAPER THE CUT TO PROVIDE DRAINAGE, AND PAINT WITH TREE PAINT.
- CUT OFF ALL DAMAGED TREE LIMBS ABOVE THE TREE COLLAR AT THE TRUNK OR MAIN BRANCH. USE A SEPARATE CUT TO AVOID PEELING BARK FROM HEALTHY
- AREAS OF THE TREE.

 REFER TO THE OEPA GENERAL PERMIT OHCOOOOO5 FOR MORE INFORMATION.

TRAFFIC CONTROL:

ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICE MAINTENANCE OF TRAFFIC NOTES. WORK IN THE RIGHT-OF-WAY OR STATE SYSTEM STREETS MAY REQUIRE ADDITIONAL TRAFFIC CONTROL PROVISIONS. REFER TO ODOT WORK ZONE TRAFFIC CONTROL PROGRAM, MUTCD AND ODOT STANDARD DRAWINGS.

EROSION CONTROL:

TOTAL AREA DISTURBED = 24.09 ACRES

SOIL TYPES: URBAN LAND-CELINA COMPLEX, CROSBY SILT LOAM, KOKOMO SILTY CLAY LOAM

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STATE EROSION CONTROL REGULATIONS.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN THROUGHOUT THE PROJECT CONSTRUCTION ALL EROSION CONTROL MEASURES SHOWN WITHIN THESE PLANS IN ACCORDANCE WITH APPLICABLE NCDEQ EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR MAY ADJUST LOCATION OF HAUL ROADS AND SILT FENCE AS NECESSARY AFTER SUCH PROPOSED CHANGES HAVE BEEN APPROVED BY THE DESIGNER.

ALL CONSTRUCTION WORK SHALL BE IN COMPLIANCE WITH REGULATIONS OF THE NATIONAL AND STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER GENERAL PERMIT.

CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A <u>RAIN GAUGE</u> ON THE PROJECT SITE AND FOR RECORDING DAILY RAINFALL AMOUNTS DURING CONSTRUCTION.

SILT FENCE SHOULD BE LOCATED BETWEEN THE HAUL ROAD AND STREAM WHERE HAUL ROADS ARE LOCATED NEAR A SECTION OF STREAM THAT WILL NOT BE WORKED ON AS PART OF THIS PROJECT.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED FOR MAINTENANCE ISSUES AFTER EVERY RAINFALL. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE LOCAL OR OEPA SO THAT PERIODIC INSPECTIONS CAN BE PERFORMED AT APPROPRIATE STAGES OF CONSTRUCTION.

STABILIZATION IS THE BEST FORM OF EROSION CONTROL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS. ALL DISTURBED AREAS THAT ARE NOT OTHERWISE STABILIZED SHALL BE TOP SOILED AND SEEDED, TEMPORARILY OR PERMANENTLY IN ACCORDANCE WITH THE OEPA GENERAL PERMIT OHCOOOOOS. PERMANENT SEEDING AND GRASS ESTABLISHMENT IS REQUIRED PRIOR TO PROJECT COMPLETION AND ACCEPTANCE.

CONTRACTOR SHALL PROVIDE GROUND STABILIZATION ON PERIMETER AREAS AND EXPOSED SLOPES GREATER THAN 3:1 WITHIN 7 DAYS AND WITHIN 14 DAYS IN ALL OTHER AREAS. CONTRACTOR TO LIMIT CLEARING TO 1,000 LF PRIOR TO COMPLETING BANK GRADING AND/OR STABILIZATION. LIMIT REMOVAL OF TREE STUMPS PRIOR TO INITIATION OF BANK GRADING.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 21 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

CONTRACTOR SHALL KEEP ALL SURROUNDING PUBLIC ROADWAYS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD, AND CONSTRUCTION DEBRIS AT ALL TIMES. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL ACCESS LOCATIONS PER THE PLANS AND SPECIFICATIONS. WHEN A CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF THE ORIGINAL APPLICATION.

ALL DRAINAGE INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL TEMPORARY SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT

ALL HAUL ROAD LOCATIONS ONSITE MAY BE ADJUSTED IN THE FIELD TO PROTECT EXISTING TREES LARGER THAN 6" DBH. THE FINAL STAKING OF THE HAUL ROADS SHALL BE APPROVED BY THE DESIGNER BEFORE CLEARING COMMENCES.

CONTRACTOR SHALL ONLY CROSS STREAM AT STABILIZED CROSSINGS AS SHOWN IN PLANS. CONTRACTOR TO COORDINATE WITH OEPA IF ADDITIONAL CROSSINGS ARE NEEDED.

SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, TEMPORARY SILT CHECK DAMS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

STABILIZATION MEASURES SHALL BE APPLIED TO STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THE PLANS BUT NECESSARY TO CONTROL EXCESS SEDIMENT, IF DETERMINED TO BE NECESSARY BY THE DESIGNER.

GENERAL SEQUENCE:

THE CONTRACTOR SHALL CONSTRUCT NEW CHANNEL SECTIONS TO A STABLE FORM BEFORE MOVING OUT OF THE WORK AREA. A STABLE FORM SHALL INCLUDE, BUT IS NOT LIMITED TO THE COMPLETE INSTALLATION OF IN STREAM STRUCTURES, EROSION CONTROL MATTING, AND TEMPORARY VEGETATION.

PERMANENT VEGETATION SHALL BE INSTALLED IN CONJUNCTION WITH TEMPORARY SEEDING IF CONSTRUCTION IS PERFORMED DURING THE SEASON SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS. PERMANENT VEGETATION SHALL BE INSTALLED DURING SPECIFIED PLANTING SEASONS.

CONSTRUCTION SEQUENCE:

- 1. STAKE THE STREAM PER SPECIFICATIONS..
- 2. THE CONTRACTOR SHALL INSTALL THE EROSION CONTROL MEASURES. THE CONTRACTOR SHALL CLEAR ONLY AS NECESSARY TO INSTALL THESE ITEMS, AND SHALL NOTIFY THE PROJECT ENGINEER WHEN INSTALLATION OF THESE ITEMS IS COMPLETE FOR INSPECTION BY THE LOCAL EROSION CONTROL INSPECTOR.
- 3. WHERE PROPOSED CHANNEL GRADING IS TO BE PERFORMED, EXCAVATE AND STORE DESIGNATED TOPSOIL, CHANNEL BED MATERIAL, AND TREES THAT CAN BE UTILIZED FOR CONSTRUCTION OF IN-STREAM STRUCTURES, INCLUDING LOG VANES, JOG J-HOOKS, LOG RIFFLES, AND TOE WOOD. CLEAR THE LOGS, BRUSH, TREES AND SHRUBS INSIDE THE CUT LINES. NO TREES OUTSIDE OF THE DESIGNATED AREAS OF EXCAVATION GREATER THAN 6" DBH ARE TO BE REMOVED WITHOUT DESIGNER'S APPROVAL. SHRUBS AND TREES THAT ARE TO BE TRANSPLANTED SHALL BE MARKED. THESE SHRUBS AND TREES SHALL BE SAVED FOR TRANSPLANTING AND STOCKPILED. ALL SHRUBS AND TREES MARKED TO BE TRANSPLANTED SHALL BE REMOVED ENSURING THAT THE ROOT MASS IS INTACT.
- 4. CONSTRUCTION SHALL BE COMPLETED INCLUDING TEMPORARY VEGETATION, EROSION CONTROL MATTING, LIVE STAKING, MATERIAL TRANSPLANTS (INCLUDING BED MATERIAL), AND STRUCTURES. THESE SHALL BE APPROVED BY THE DESIGNER PRIOR TO DIVERTING STREAM FLOWS INTO THE NEW CHANNEL.
- 5. THE CONTRACTOR SHALL STABILIZE THE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
- 6. INSTALL PLANTINGS ACCORDING TO THE PLANTING PLANS.

<u>UTILITIES:</u> THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES INSIDE THE CONSTRUCTION

UNDERGROUND UTILITIES TO BE TRAVERSED BY CONSTRUCTION EQUIPMENT SHALL BE APPROPRIATELY PROTECTED OR BRIDGED TO PREVENT DAMAGE. THE CONTRACTOR SHALL FURNISH ALL PROTECTION CROSSINGS REQUIRED FOR ALL UTILITY CROSSINGS. PROTECTION CROSSINGS SHALL BE INSTALLED AS REQUIRED TO PROTECT EXISTING LITHERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED TO ANY UTILITY LINES DURING THE CONSTRUCTION PROCESS.

THE CONTRACTOR SHALL FOLLOW OSHA GUIDELINES AND UTILITY OWNER GUIDELINES WHEN WORKING NEAR UTILITIES.

THE CONTRACTOR SHALL CALL THE "OHIO811" BY DIALING 811 OR 1-800-362-2764 BEFORE DIGGING.

PLANTING NOTES

THE PLANTING SHOULD BE COMPLETED ACCORDING TO THE PLAN AND SPECIFICATIONS THAT ARE IN THE CONSTRUCTION DOCUMENTS. ANY SPECIFICATIONS CAN BE MODIFIED OR ADJUSTED BY KIMLEY—HORN DEPENDING ON THE SITE—SPECIFIC CONDITIONS OR AVAILABILITY OF PLANS.

PLANTS MAY REQUIRE ADDITIONAL CARE AFTER THE COMPLETION OF 1 GROWING SEASON (MID-APRIL TO LATE OCTOBER). STANDARD PRACTICES SUCH AS WATERING, MULCHING, AND FERTILIZER SHOULD BE COMPLETED DURING THIS TIME AS NECESSARY.

PLANT SPECIES CAN BE SUBSTITUTED IF THE SPECIFIED PLANTS ARE NOT AVAILABLE, BUT MUST BE APPROVED BY ENGINEER.

ALL SEEDS/VEGETATION SHALL ENSURE THAT THE ORIGIN OF THE SEEDS FROM WHICH THE PLANTS OR SEEDS WERE PRODUCED FROM HARDINESS ZONES 5, 6, OR 7, FROM THE EASTERN OR CENTRAL PORTIONS OF THE U.S., PRIOR TO PLANTING.

AN EXPERIENCED CONTRACTOR WHO HAS SUCCESSFULLY COMPLETED PLANTING PROJECTS SIMILAR IN SIZE SHALL BE HIRED FOR THE WORK.

A FULL TIME AND EXPERIENCED SUPERVISOR SHALL BE ON THE PROJECT SITE WHEN PLANTING IS IN PROGRESS.

STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE AS LONG AS QUALITY AND VARIETY IS MAINTAINED AND DOES NOT PRESENT PROBLEMS WITH THE INSTALLATION

ENSURE THAT THE ROOTS.ROOT BALLS ARE PROTECTED FORM DIRECT SUN, BREAKAGE, WARM AIR AND DRYING WINDS. STOCK IN CONTAINERS SHALL BE WATERED FREQUENTLY TO KEEP SOIL MOIST. DRIED OUT TOPS OF PLANTS OR ROOTS SHALL BE REJECTED.

ALL PLANT MATERIAL SHALL BE TRANSPORTED AND STORED TO PREVENT PHYSICAL DAMAGE.

ROOT STOCK TO BE PRUNED AS NECESSARY BEFORE INSTALLATION.

DO NOT BEND OR BIND—TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. USE PROTECTIVE COVERING ON PLANS DURING DELIVERY.

IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, SET PLANT MATERIALS IN SHADE TO PROTECT FROM MECHANICAL OR WEATHER DAMAGE.

PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, DESTRUCTIVE WINDS AND OTHER TYPES OF DAMAGE.

PLANTING NOTES (CONTINUED)

PLANTINGS SHOULD FOLLOW DETAILS ON SHEETS EC7.0 TO EC7.3. A PUNCH/PLANTING BAR, AUGER, REBAR, OR WATER—JET MAY BE USED TO PRE—DRILL HOLES IF NECESSARY. SOIL AROUND STAKE SHOULD BE TAMPED FOLLOWING INSTALLATION.

SHRUB SEEDLINGS AND BARE ROOT TREE PLANTINGS ARE PERMITTED BETWEEN THE NOVEMBER 1 AND DECEMBER 15, AND FEBRUARY 15 TO APRIL 15. THESE DATES CAN ONLY BE CHANGED WITH ADVANCED APPROVAL BY KIMLEY—HORN. IF PLANTED OUTSIDE THESE DATES, THE CONTRACTOR BARES RESPONSIBILITY FOR THE SURVIVAL OF THE PLANTINGS.

ALL BARE ROOT PLANTS SHALL BE SET STRAIGHT OR PLUMB TO ALLOW UPRIGHT GROWTH. CONTAINERIZED PLANTS SHALL BE SET PLUMB AND CENTERED WITHIN THE HOLE, WHILE MAKING SURE THAT ROOT BALL IS ELEVATED 2 TO 3 INCHES ABOVE THE SURROUNDING SOIL ELEVATIONS. THE PLANTING HOLES SHALL BE BACKFILLED WITH THE SAME SOIL THAT WAS EXCAVATED FORM THE HOLE AFTER REMOVING ALL STONES, ROOTS AND OTHER DEBRIS GREATER THAN 2 INCHES IN DIAMETER. AFTER BACKFILLING THE HOLE, ALL PLANTED SPECIES SHOULD BE WATERED TO THE POINT OF SOIL SATURATION IF NOT PLANTED IN AN EXISTING WET CONDITION.

MAKE SURE THAT ROOTS ARE NOT POT BOUND AND SEPARATE ANY CRAMPED ROOTS BEFORE SETTING THE PLANT.

ENSURE THAT EXISTING SOIL AROUND THE PLANTING IS NOT MOUNDED AND RAKE TO EVEN SOIL OUT AS NECESSARY.

ANY LIVE STAKES USED SHALL BE AT LEAST 1 YEAR OLD AND HARVESTED AND TRANSPORTED WHEN THE PLANS ARE DORMANT (NOV. 1 TO MARCH 1). REFER TO LIVE STAKE DETAIL IN PLANS.

VERIFY THE ELEVATIONS OF THE SUBGRADE AND TOPSOIL AND VERIFY THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED.

COMPACTED SOIL SHALL BE RAKED, DUSTED, OR ADJUSTED AS NECESSARY TO FACILITATE WATER INFILTRATION AND ROOT GROWTH.

ANY SOIL ADJUSTMENTS SHALL BE COMPLETED PRIOR TO SEEDING AND PLANT INSTALLATION. DO NOT START INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE ENGINEER.

ANY ROCK FRAGMENTS LARGER THAN 2 INCHES IN SIZE, OR LARGE DEBRIS SHALL BE REMOVED BEFORE ANY PLANTING INSTALLATION. ADEQUATE SOIL FOR PLANTING SHOULD BE COMPRISED MAINLY OF LOAM TO SILTY CLAY LOAM SOILS.

PLANTS SHALL BE INSTALLED IN UNFROZEN SOIL CONDITIONS (OCTOBER 1 TO DECEMBER 15, OR MARCH 1 TO MAY 31) AND OUTSIDE OF POTENTIAL FROST. PLANT INSTALLATION OUTSIDE OF THIS TIME PERIOD SHALL NOT OCCUR UNLESS APPROVED BY THE ENGINEER AND MAY REQUIRE ADDITIONS TO THE SCOPE OF WORK, SUCH AS WATERING REGIMES, MULCHING, OR ADDITIONAL PLANT QUANTITIES.

SEEDING SHALL OCCUR FORM FALL (SEPTEMBER 1) TO LATE SPRING (MAY 31). WEEDING AND SOIL PREPARATION CAN BE CONDUCTED AS NEEDED PRIOR TO SEEDING AND PLANTING.

WET SEED, MOLDY SEED, OR DAMAGED SEED SHALL NOT BE USED. SEED SHOULD BE CLEAN AND DRY.

USE STRAW MULCH IMMEDIATELY FOLLOWING COMPLETION OF SEEDING OPERATIONS IF OTHER EROSION CONTROL MEASURES ARE NOT OTHERWISE SPECIFIED.

RAKE SEED LIGHTLY INTO THE TOP $\frac{1}{4}$ TO $\frac{1}{2}$ INCH OF TOPSOIL, ROLL LIGHTLY AND WATER WITH A SPRAY.

IGNED BY: MCS

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NOTES DRAWN BY

GENERA

TREAM CORRIDOR PROTECTION ZOI REFORESTATION PLANS

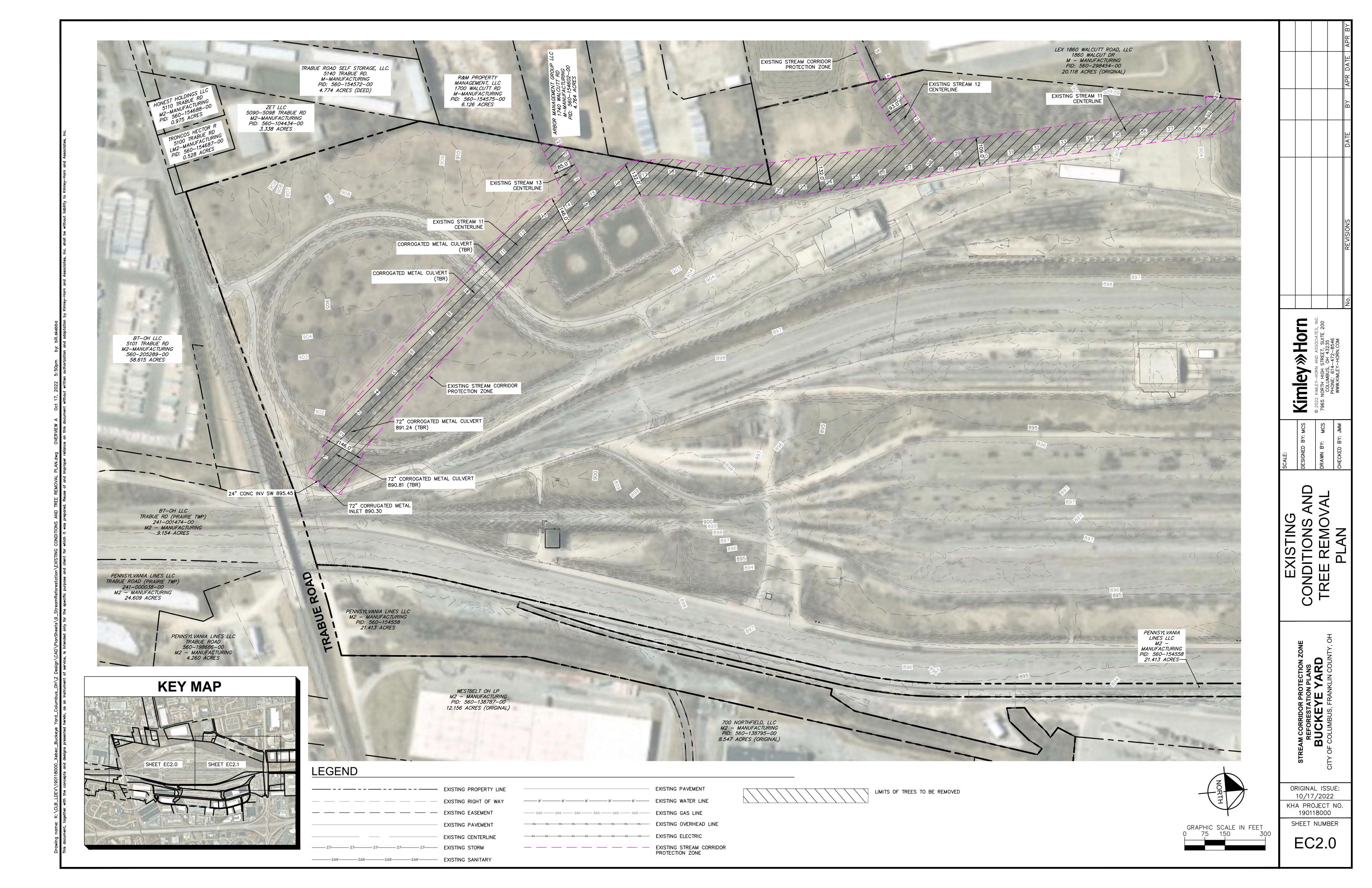
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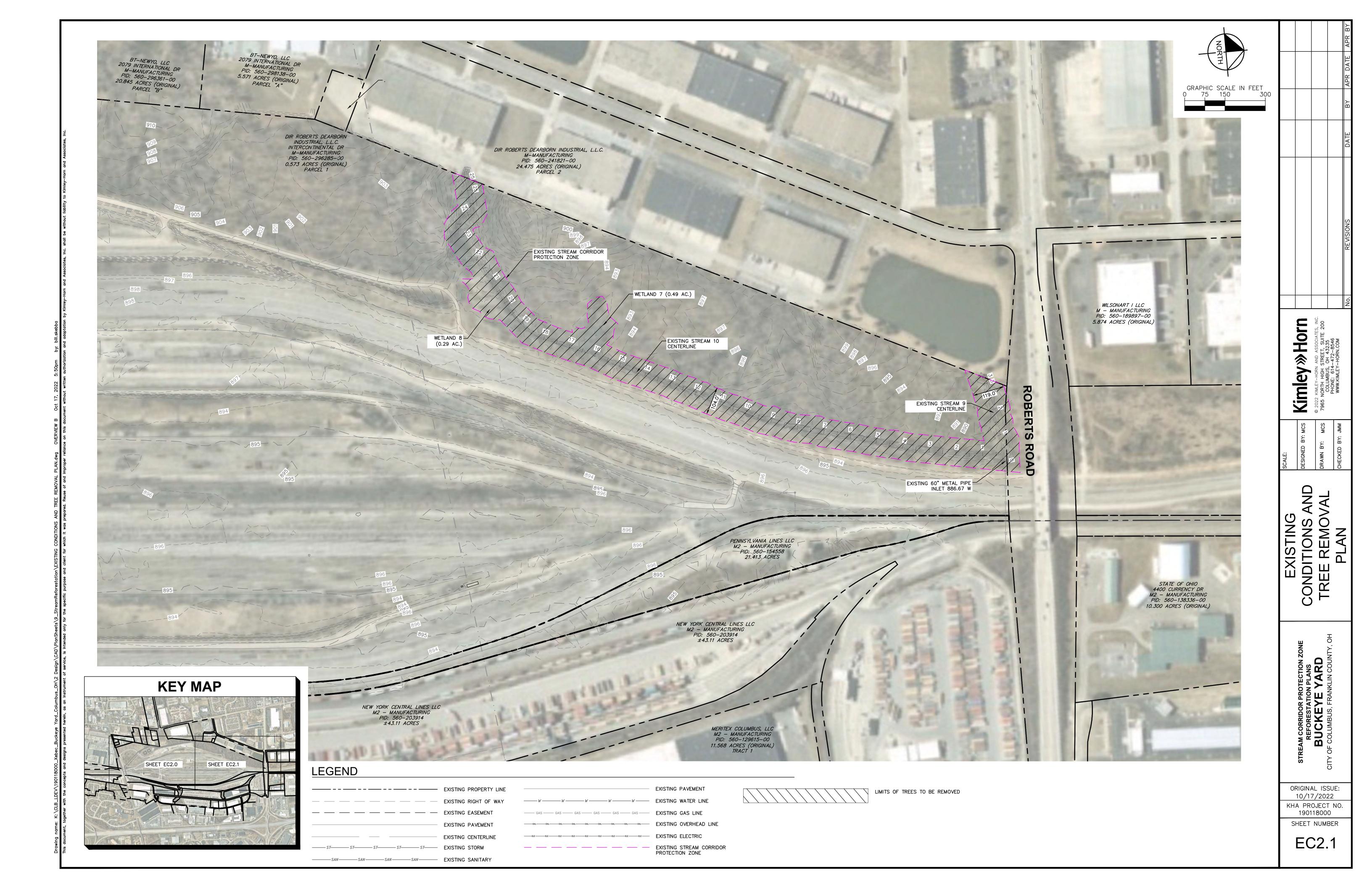
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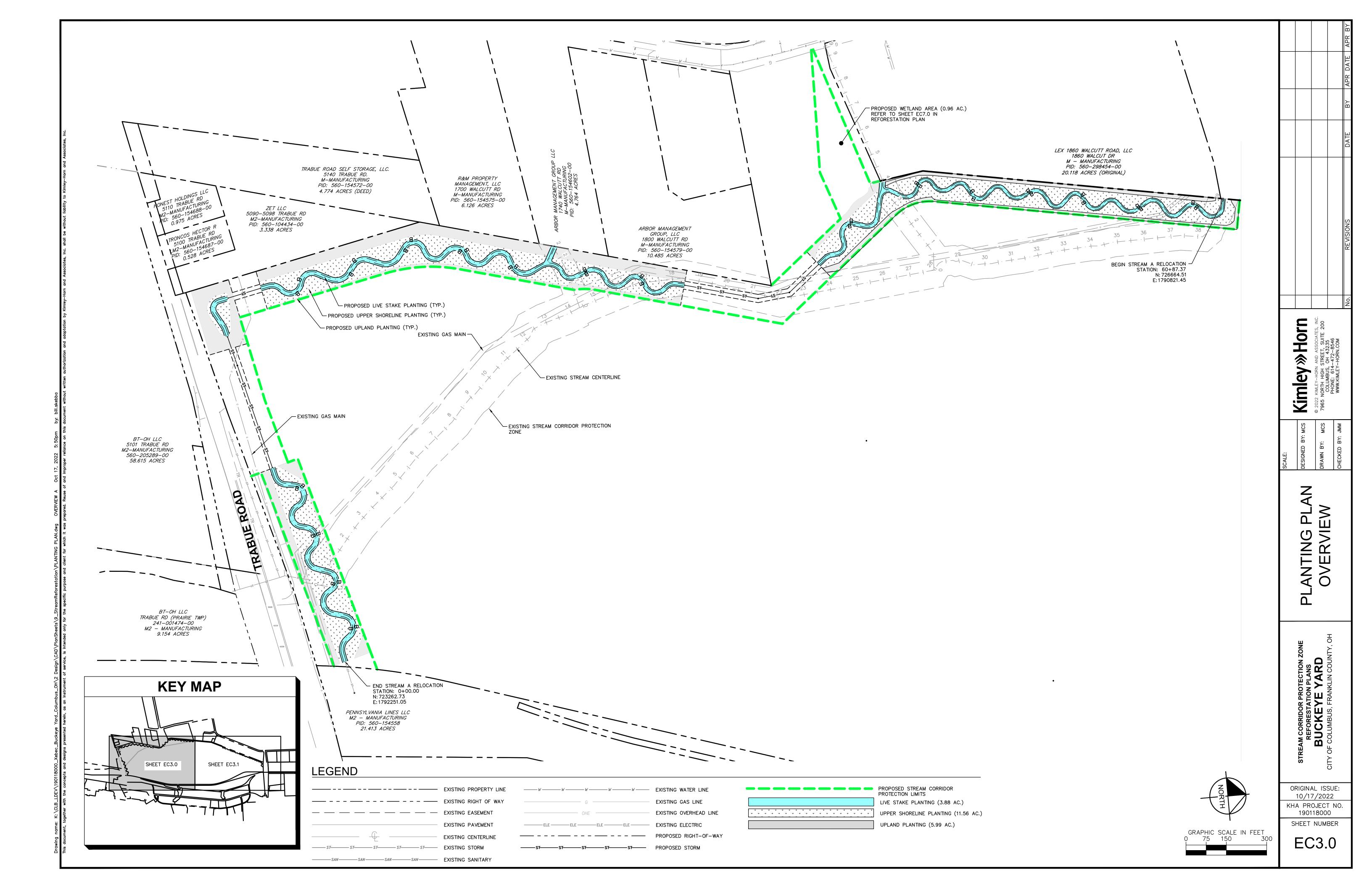
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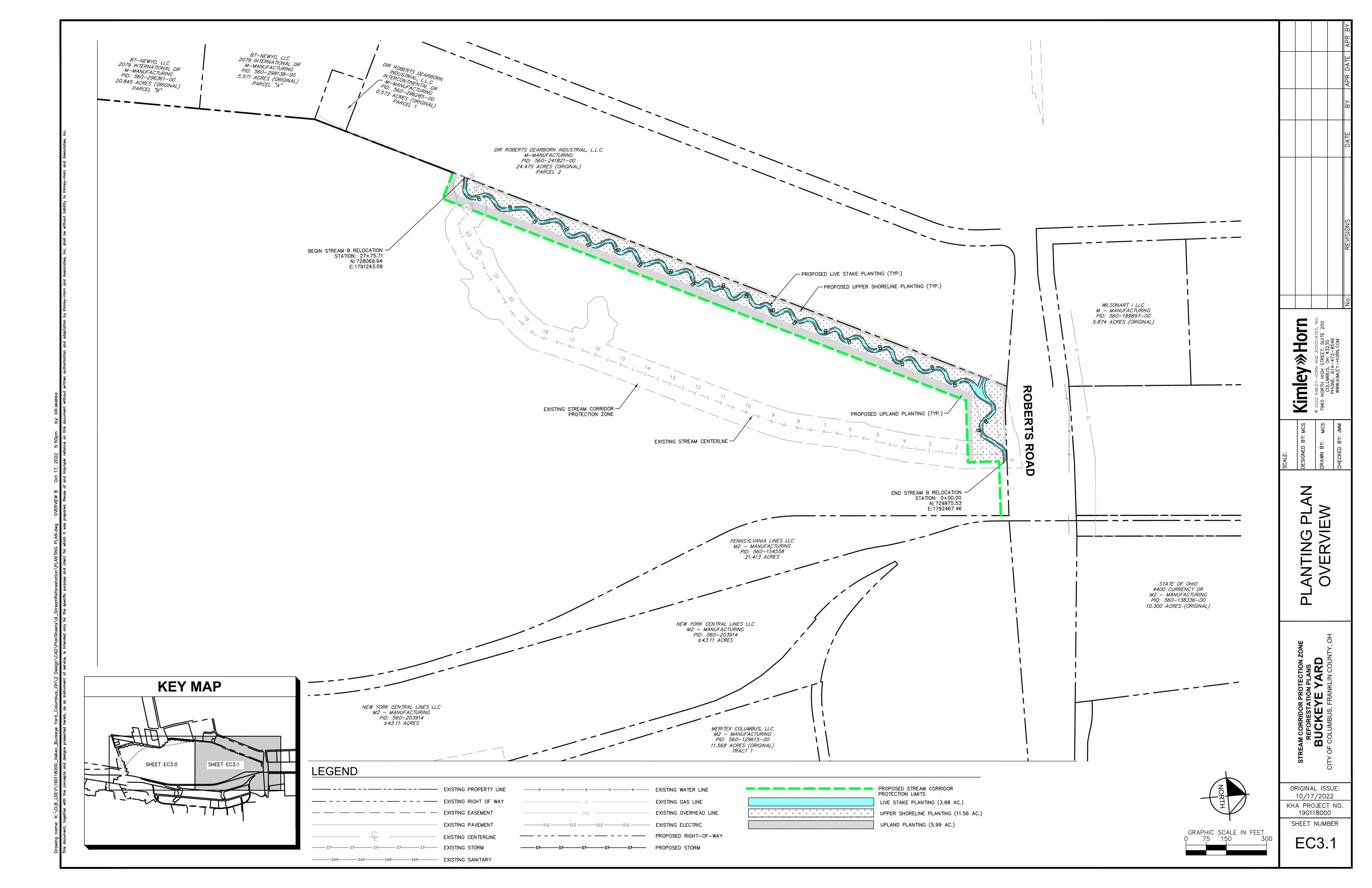
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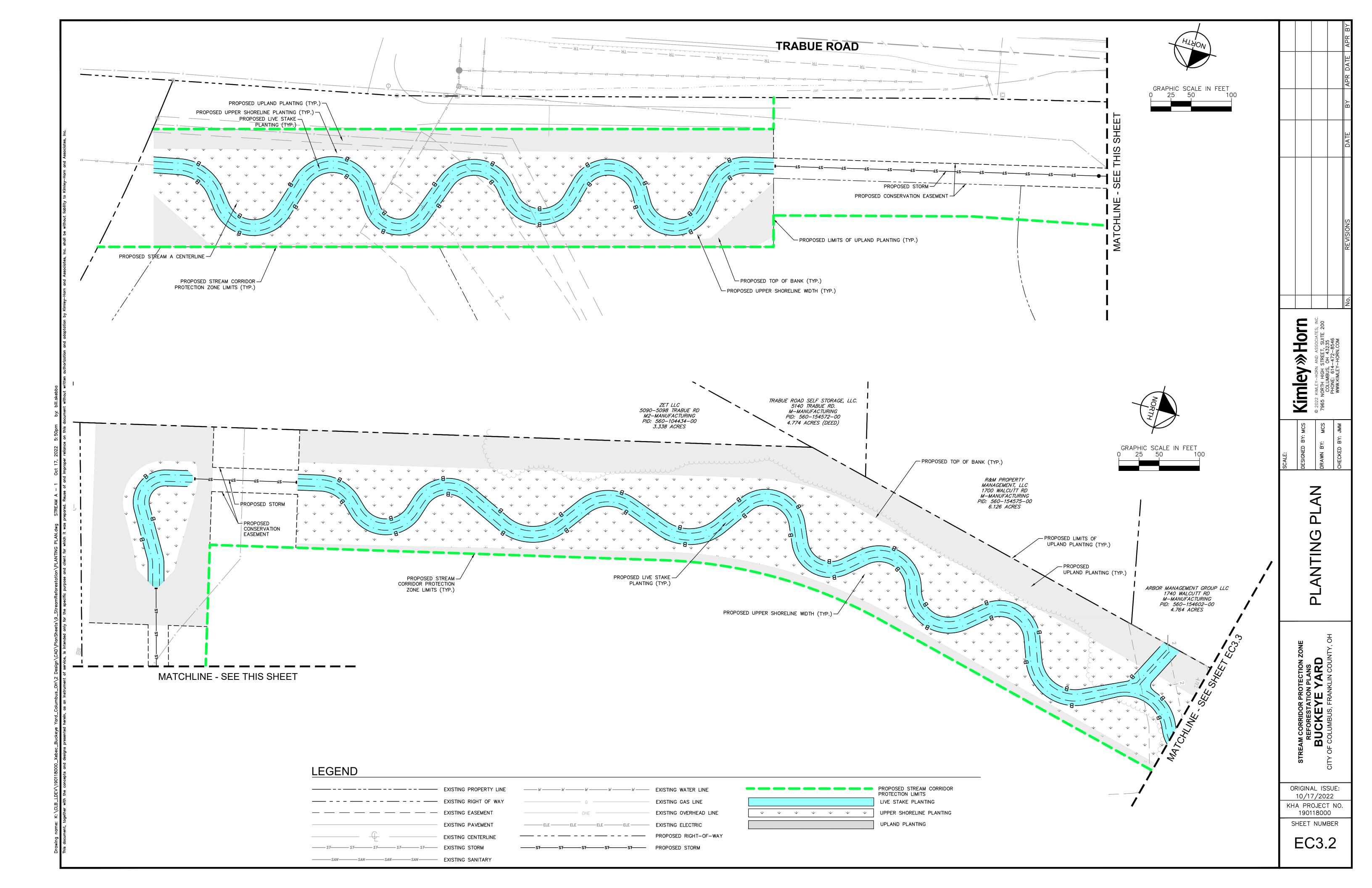
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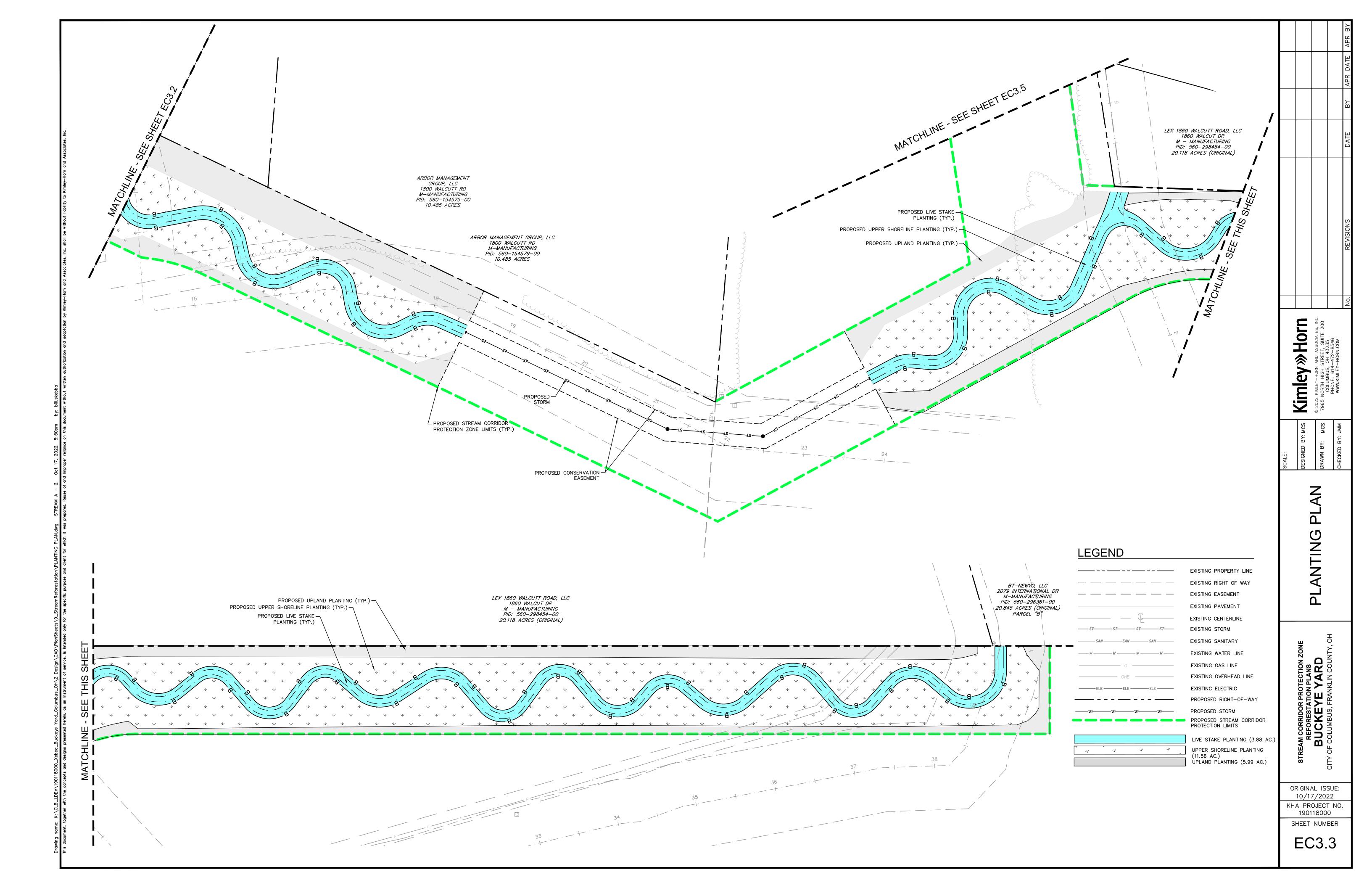


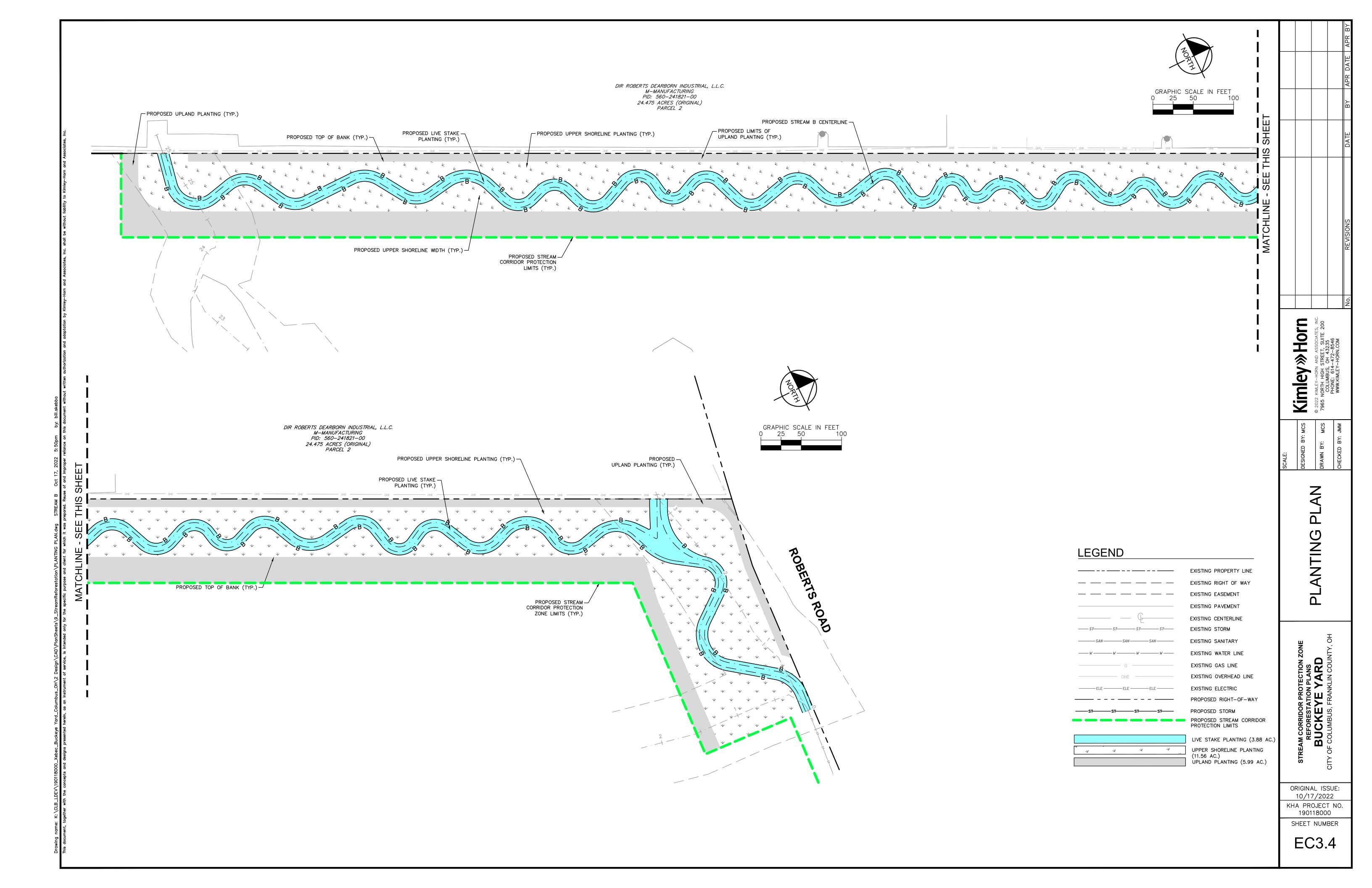


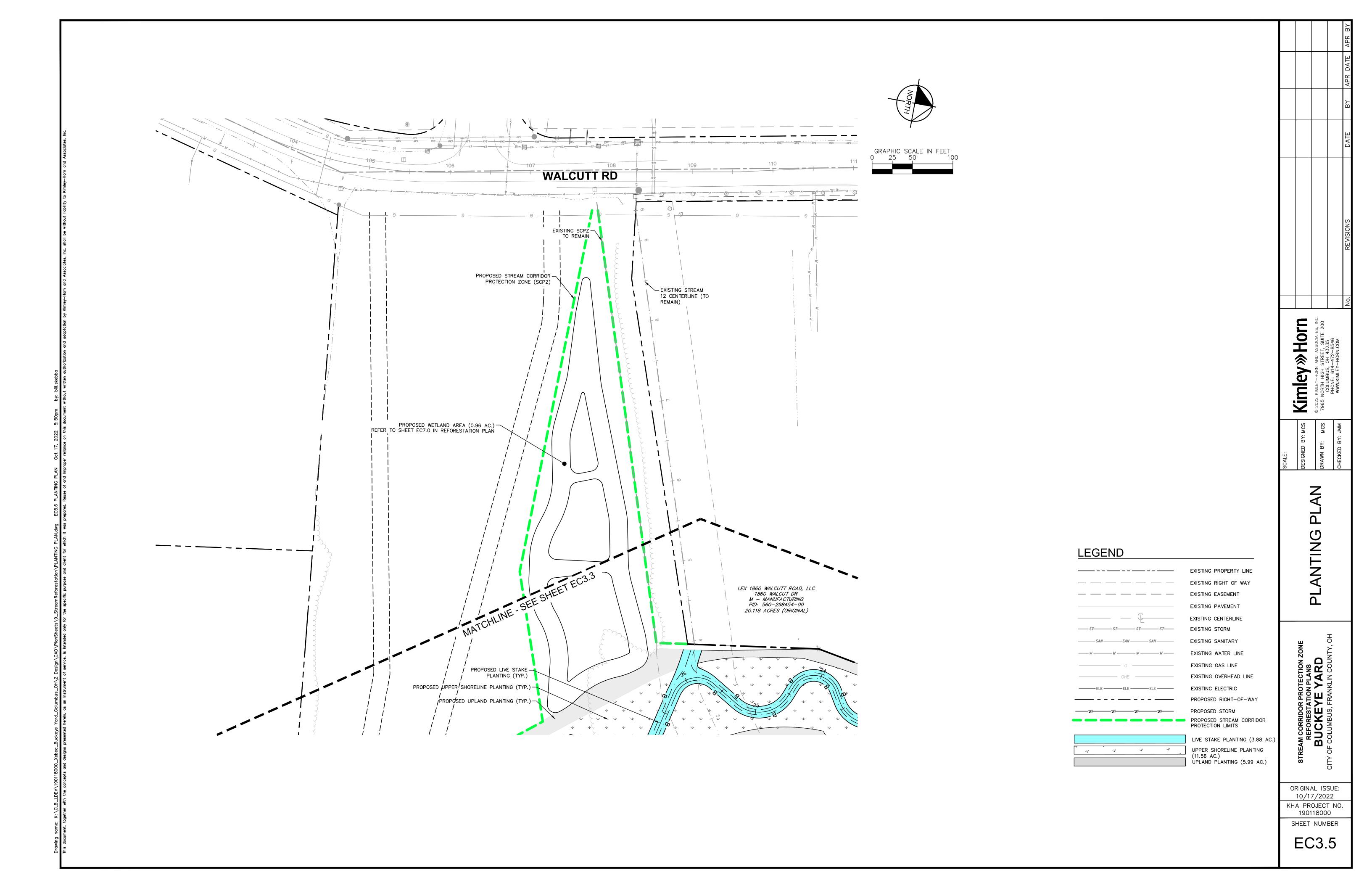


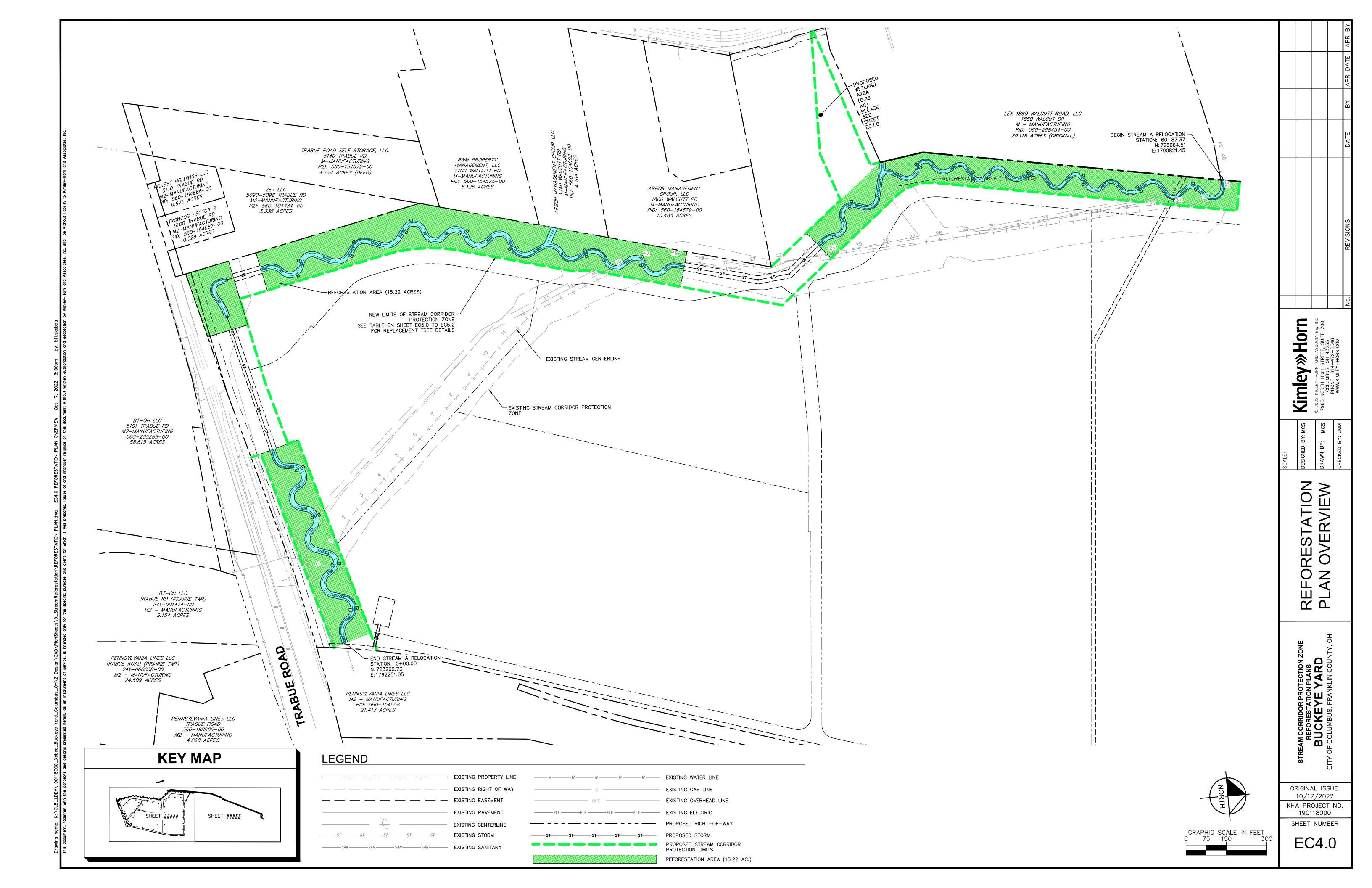


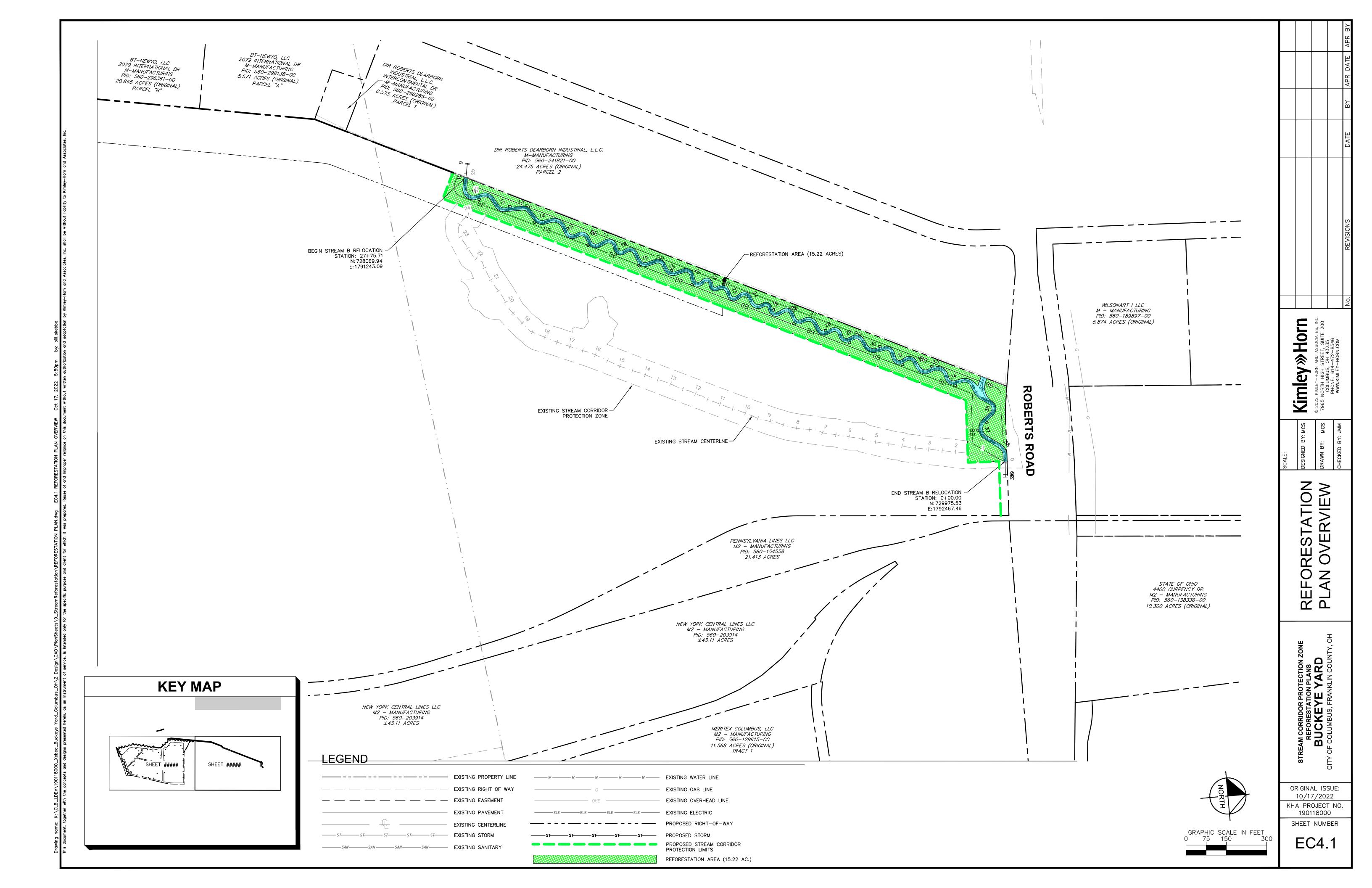


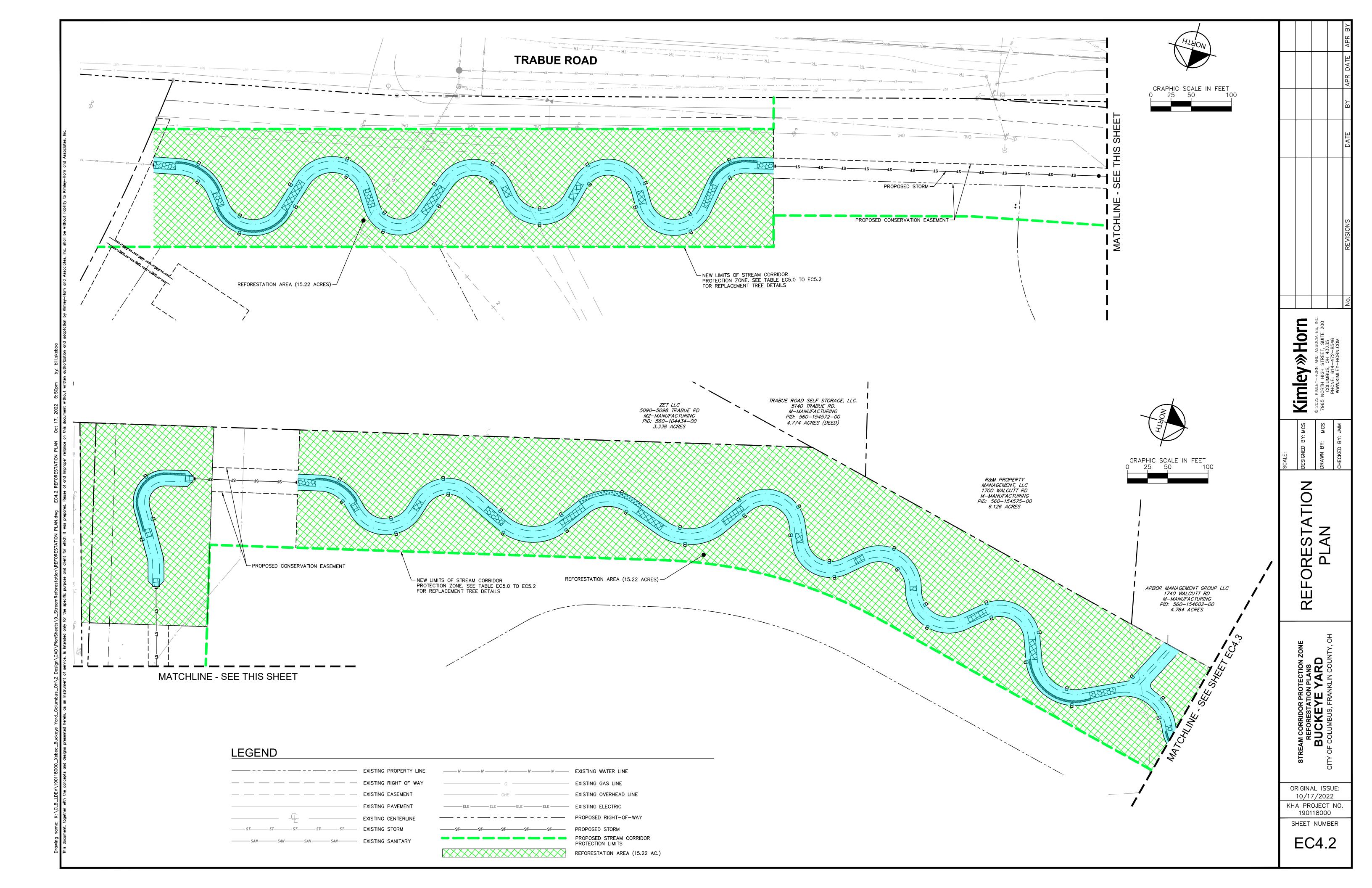


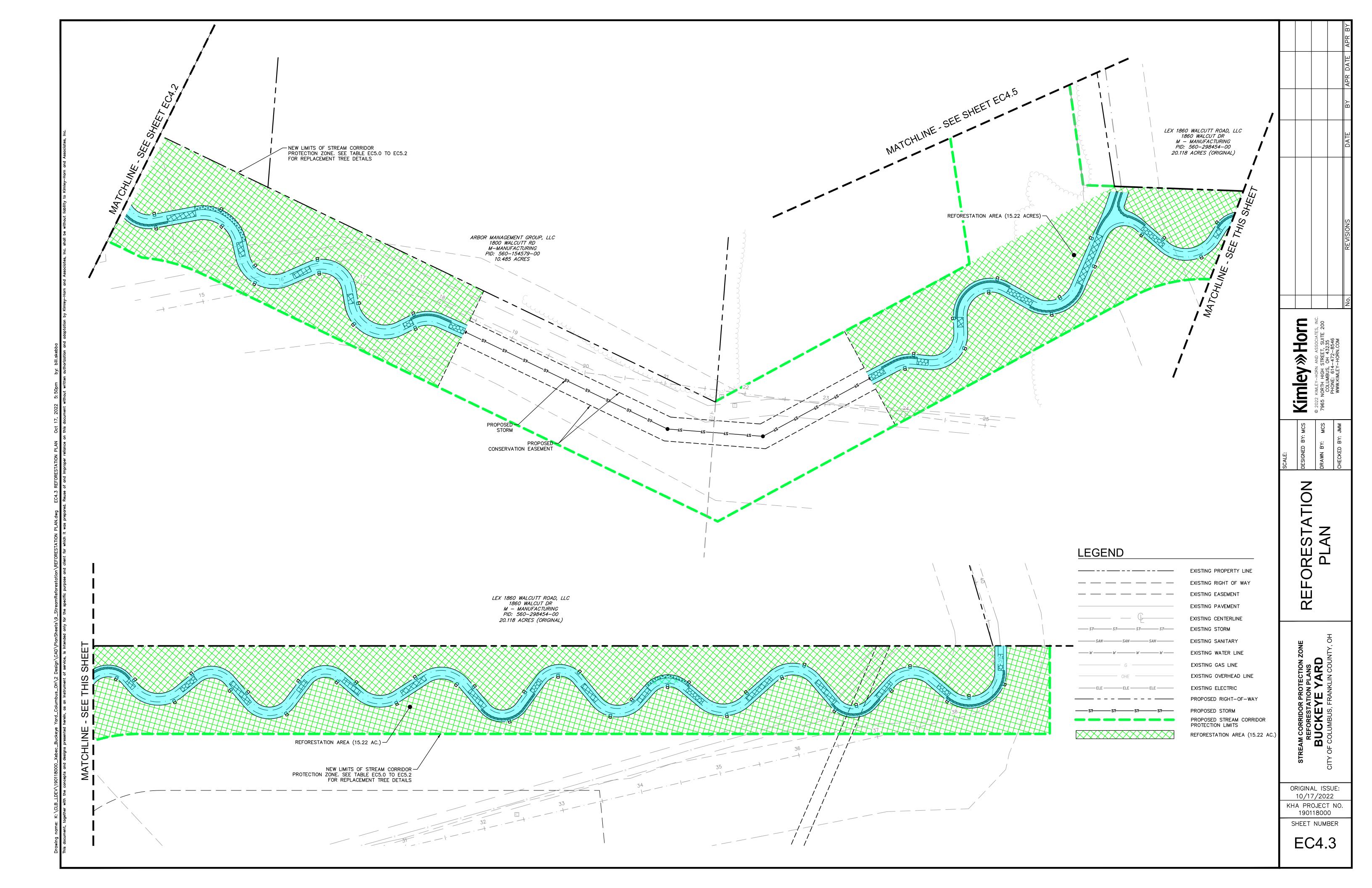


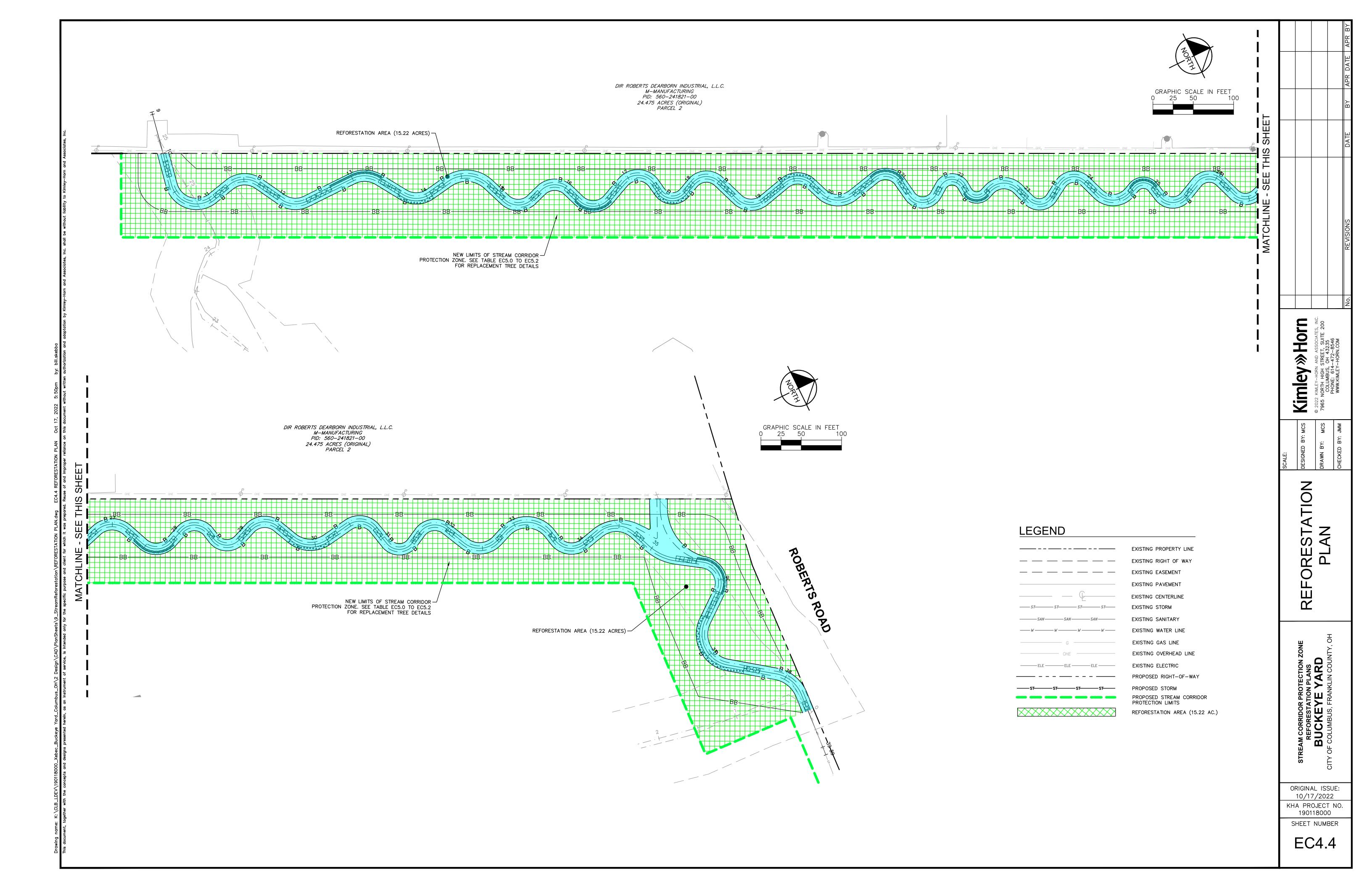


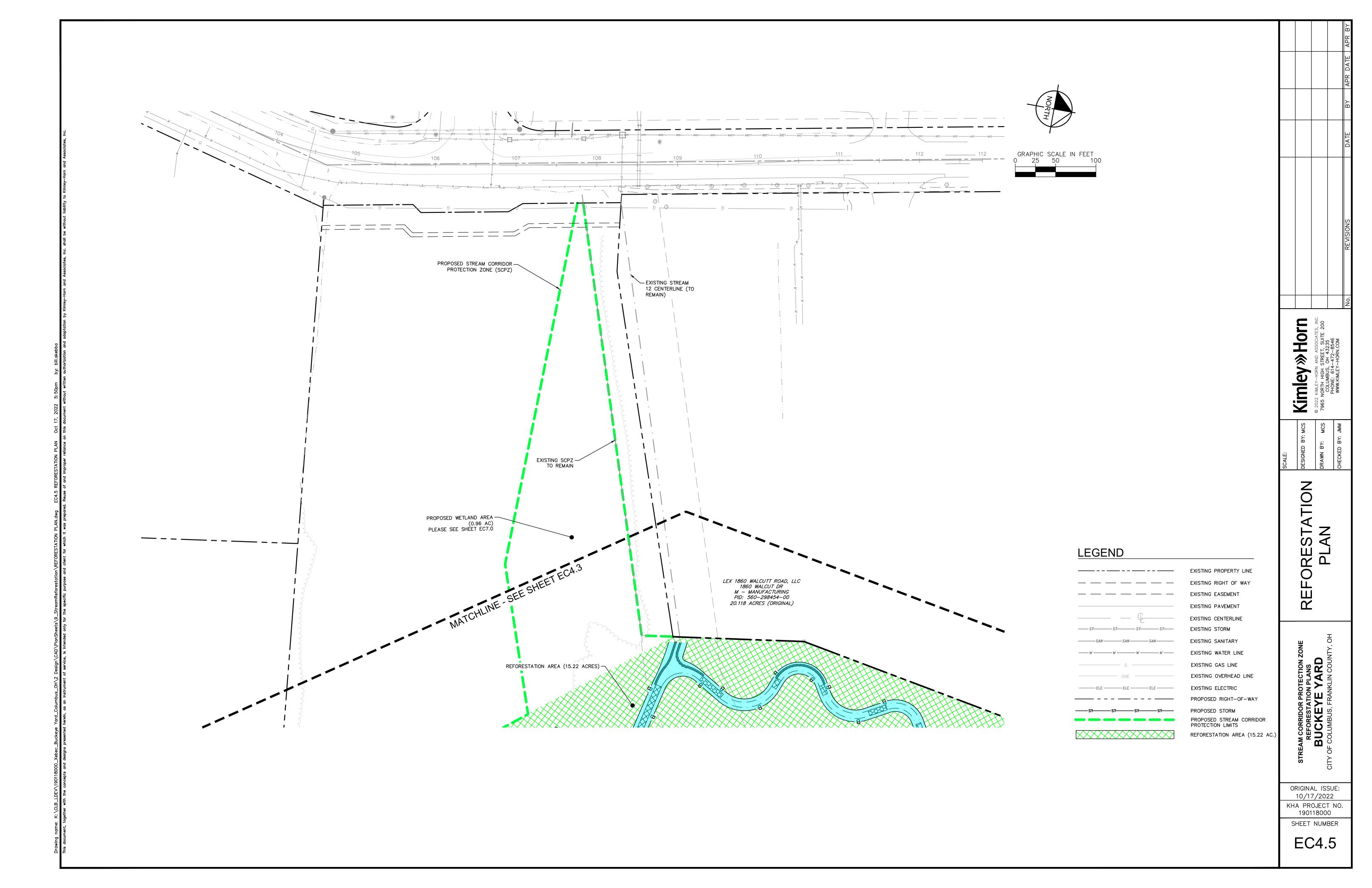












ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
2004	Maclura pomifera	OSAGE ORANGE	GOOD	7	2 TRUNK	728172.5	1791643.6	1
2009	Salix ssp.	WILLOW	GOOD	8	2 TRUNK	725559.2	1790975.9	1
2013	Carya ovata	HICKORY	GOOD	7	2 TRUNK	726471.3	1790864.8	1
2014	Acer ssp.	MAPLE	GOOD	8	2 TRUNK	725490.2	1790838	1
2015	Prunus serotina	BLACK CHERRY	GOOD	8	2 TRUNK	725508.4	1790869.5	1
2017	Populus deltoides	EASTERN COTTONWOOD	POOR	21	2 TRUNK	726653.2	1790914.1	3
2023	Gleditsia tricanthos	HONEY LOCUST	GOOD	8		728017.4	1791387.3	1
2024	Populus deltoides	EASTERN COTTONWOOD	GOOD	8	2 TRUNK	728266.7	1791814.4	1
2025	Quercus rubra	NORTHERN RED OAK	GOOD	6		728286.7	1791802.1	1
2026	Quercus rubra	NORTHERN RED OAK	GOOD	9		728286.8	1791802.8	1
2027	Quercus rubra	NORTHERN RED OAK	GOOD	13	2 TRUNK	728267.9	1791735.8	2
2030	Quercus rubra	NORTHERN RED OAK	GOOD	18	2 TRUNK	728564.6	1791941.4	2
2037	Ulmus americana	ELM	GOOD	8	3 TRUNK	729146.6	1792218	1
2038	Ulmus americana	ELM	GOOD	7	3 TRUNK	729147.4	1792218.6	1
2039	Juglans nigra	WALNUT	POOR	14	2 TRUNK	729051.4	1792175.3	2
2044	Populus deltoides	EASTERN COTTONWOOD	GOOD	12	2 TRUNK	728679.3	1792040.8	2
2045	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729088	1792239.1	2
2046	Populus deltoides	EASTERN COTTONWOOD	GOOD	13	2 TRUNK	729183.7	1792272.4	2
2047	Populus deltoides	EASTERN COTTONWOOD	GOOD	14	2 TRUNK	729477.6	1792355.6	2
2048	Populus deltoides	EASTERN COTTONWOOD	GOOD	18	2 TRUNK	729519.6	1792365.8	2
2051	Populus deltoides	EASTERN COTTONWOOD	POOR	16	2 TRUNK	729807.2	1792431.5	2
2052	Populus deltoides	EASTERN COTTONWOOD	GOOD	17	2 TRUNK	729815.5	1792432.8	2
2053	Prunus serotina	BLACK CHERRY	GOOD	6	2 TRUNK	729945.2	1792480.4	1
2054	Acer ssp.	MAPLE	GOOD	12	2 TRUNK	729946.8	1792447.3	2
2055	Ulmus americana	ELM	GOOD	9	2 TRUNK	729824.2	1792392.5	1
2056	Ulmus americana	ELM	GOOD	9	2 TRUNK	729819	1792415.4	1
2057	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729955.8	1792434	2
2059	Acer ssp.	MAPLE	GOOD	10	2 TRUNK	729920.6	1792185.4	1
2060	Salix ssp.	WILLOW	POOR	9	4 TRUNK	729954.8	1792298.9	1
2061	Salix ssp.	WILLOW	POOR	7	4 TRUNK	729954.7	1792299.5	1
2062	Salix ssp.	WILLOW	POOR	6	4 TRUNK	729954.6	1792300.1	1
2063	Prunus serotina	BLACK CHERRY	GOOD	12	2 TRUNK	723304	1791845.9	2
2065	Juniperus virginiana	EASTERN RED CEDAR	GOOD	4		723582	1791510.3	1
381037	Acer ssp.	MAPLE	GOOD	8		724005.9	1791146.4	1
381039	Acer ssp.	MAPLE	GOOD	6	3 TRUNK	724380.2	1790985	1
391001	Populus deltoides	EASTERN COTTONWOOD	GOOD	20		728095.8	1791600.6	3
391005	Gleditsia tricanthos	HONEY LOCUST	GOOD	7		728032.8	1791616	1
391009	Populus deltoides	EASTERN COTTONWOOD	GOOD	31		728102.6	1791633.2	5
391010	Populus deltoides	EASTERN COTTONWOOD	GOOD	31		728095.8	1791629.7	5
391011	Ulmus americana	ELM	GOOD	6		728113.6	1791629	1
391012	Ulmus americana	ELM	GOOD	6		728021	1791607.5	1
391016	Ulmus americana	ELM	POOR	6		728072.1	1791579.3	1
391017	Ulmus americana	ELM	GOOD	8		728079.2	1791569.1	1
391018	Salix ssp.	WILLOW	GOOD	12		728082.1	1791561.3	2
391019	Ulmus americana	ELM	POOR	11		728057.8	1791558	1
391020	Ulmus americana	ELM	GOOD	11		728061.1	1791547.7	1
391021	Salix ssp.	WILLOW	GOOD	13		728086.1	1791523.4	2
391022	Catalpa speciosa	CATALPA	GOOD	11		728081.9	1791514.7	1
391023	Crataegus	HAWTHORN	GOOD	6		728106.6	1791521.4	1
	pennsylvanica							
391024	Juglans nigra	WALNUT	GOOD	13		728108.8	1791543	2
391026	Ulmus americana	ELM	GOOD	6		728122.2	1791552.2	1
391027	Liriodendron tulinifera	TULIP POPLAR	POOR	7		728126.1	1791548.7	1
	tulipifera	E1 # 4	COOD	•				
391029	Ulmus americana	ELM	GOOD	6		728137.2	1791541.6 1791575.3	1
391031	Ulmus americana Liriodendron	ELM	POOR	6		728145.7	1/212/5.3	1
391032	tulipifera	TULIP POPLAR	POOR	7		728147	1791583.1	1
391033	Ulmus americana	ELM	GOOD	10		728139.7	1791593.3	1
391034	Ulmus americana	ELM	GOOD	6		728142.1	1791610.7	1
391035	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728132.1	1791623.3	1
391036	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728116.9	1791595	2
391040	Maclura pomifera	OSAGE ORANGE	GOOD	8	2 TRUNK	728171.8	1791643.6	1
391041	Prunus serotina	BLACK CHERRY	GOOD	6	1	728172.4	1791647.7	1
391042	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		728147.6	1791662.3	2
391043	Populus deltoides	EASTERN COTTONWOOD	GOOD	10	2 TRUNK	728155.1	1791663	1
391044	Ulmus americana	ELM	GOOD	6		728158.9	1791660.7	1
391044	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		728138.3	1791670.3	2
391045	Ulmus americana	ELM	GOOD	6		728101.7	1791664.6	1
	Ulmus americana	ELM	GOOD	8		728171	1791630.3	1
3910/17	Jiiius ailielikalla	LLIVI						
391047	Illmus amaricana	FINA	GUUD	Q		//2/152/1	/u h/u	•
391047 391048 391049	Ulmus americana Prunus serotina	ELM BLACK CHERRY	GOOD GOOD	8 10		728153.1 728178.7	1791639 1791663.2	1

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
391072	Quercus rubra	RED OAK	GOOD	15		728080	1791415.7	2
391073	Gleditsia tricanthos	HONEY LOCUST	GOOD	12		728076.1	1791409.1	2
391074	Salix ssp.	WILLOW	LEANING	10		728056.1	1791410.2	1
391075	Salix ssp.	WILLOW	LEANING	7		728050.8	1791411.1	1
391076	Gleditsia tricanthos	HONEY LOCUST	GOOD	12		728074.1	1791386.9	2
391077	Liriodendron tulipifera	TULIP POPLAR	GOOD	12		728067.3	1791383.1	2
391078	Ulmus americana	ELM	GOOD	10		728096.3	1791389	1
391079	Juglans nigra	WALNUT	GOOD	16		728097.7	1791397.1	2
391080	Gleditsia tricanthos	HONEY LOCUST	GOOD	15		728099.2	1791378.1	2
391081	Ulmus americana	ELM	GOOD	7		728114.5	1791385.9	1
391082	Carya ovata	HICKORY	GOOD	7		728109.6	1791373.9	1
391088	Acer ssp.	MAPLE	GOOD	9		728099.6	1791441.6	1
391101	Ulmus americana	ELM	GOOD	6		728105.5	1791286.6	1
391102	Maclura pomifera	OSAGE ORANGE	GOOD	11		728089.9	1791283.9	1
391103	Maclura pomifera	OSAGE ORANGE	GOOD	12		728090	1791289.2	2
391104	Ulmus americana	ELM	GOOD	12		728085.7	1791290.4	2
391105	Gleditsia tricanthos	HONEY LOCUST	GOOD	11		728095.4	1791310.7	1
391106	Crataegus pennsylvanica	HAWTHORN	GOOD	8		728111.4	1791318.3	1
391107	Ulmus americana	ELM	GOOD	12		728108.1	1791328.5	2
391107	Ulmus americana	ELM	GOOD	7		728105.1	1791353.9	1
401006	Ulmus americana	ELM	GOOD	6		724636.6	1790937.9	1
401007	Acer ssp.	MAPLE	GOOD	6	2 TRUNK	724672	1790941	1
	Liriodendron							
401011	tulipifera	TULIP POPLAR	GOOD	7		725018.2	1791014.8	1
401012	Liriodendron tulipifera	TULIP POPLAR	GOOD	7		725058.7	1791013.1	1
401013	Liriodendron tulipifera	TULIP POPLAR	GOOD	6		725396.6	1790982.9	1
401014	Acer ssp.	MAPLE	GOOD	7		725504.4	1790974.1	1
401015	Salix ssp.	WILLOW	GOOD	8		725562	1790960.4	1
401016	Salix ssp.	WILLOW	GOOD	8	2 TRUNK	725559.2	1790961.2	1
401020	Acer ssp.	MAPLE	GOOD	6		724675.3	1790939.6	1
401022	Prunus serotina	BLACK CHERRY	GOOD	7		724546.3	1790908	1
401023	Populus deltoides	EASTERN COTTONWOOD	POOR	16		726282	1790896.4	2
401024	Populus deltoides	EASTERN COTTONWOOD	POOR	14		726244	1790895.2	2
401025	Populus deltoides	EASTERN COTTONWOOD	POOR	16		726190.6	1790905.6	2
401026	Acer ssp.	MAPLE	GOOD	6		726027.3	1790885.2	1
401027	Acer ssp.	MAPLE	GOOD	9		725682.6	1790959.1	1
401028	Acer ssp.	MAPLE	GOOD	9		725676.2	1790963.6	1
401029	Acer ssp.	MAPLE	GOOD	10		725648.2	1790962.5	1
401030	Acer ssp.	MAPLE	GOOD	6		725626.5	1790964.4	1
401031	Acer ssp.	MAPLE	GOOD	6		725619.6	1790916.6	1
401051	Acer ssp.	MAPLE	GOOD	9		725486.1	1790778.1	1
401052	Carya ovata	HICKORY	GOOD	9		726453.1	1790884.6	1
401053	Carya ovata	HICKORY	GOOD	9		726463.6	1790880.7	1
401054	Carya ovata	HICKORY	GOOD	9		726467.7	1790863.8	1
401055	Carya ovata	HICKORY	GOOD	7	2 TRUNK	726472	1790864.8	1
401056	Populus deltoides	EASTERN COTTONWOOD	POOR	6		726483.2	1790880.7	1
401057	Carya ovata	HICKORY	GOOD	6		726479.9	1790858	1
411001	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		725242	1790219.9	2
411002	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		725248.1	1790239.3	2
411003	Prunus serotina	BLACK CHERRY	GOOD	6		725254.3	1790258.3	1
411004	Prunus sereting	EASTERN COTTONWOOD	POOR	7		725281.2	1790333.8	1
411005	Prunus serotina	BLACK CHERRY	GOOD	7	1	725284.1	1790350.3	1
411008	Acer ssp. Acer ssp.	MAPLE MARIE	POOR	6 7	1	725459.4	1790778.3 1790781.9	1
411009 411010	Acer ssp. Acer ssp.	MAPLE MAPLE	GOOD GOOD	6		725460.7 725477.1	1790781.9	1 1
411010	Acer ssp.	MAPLE	GOOD	6	2 TRUNK	725477.1	1790817.7	1
411011	Prunus ssp	BLACK CHERRY	GOOD	6	2 TRUNK	725490.2	1790838.7	1
411012	Acer ssp.	MAPLE	GOOD	10		725515.1	1790880.9	1
411018	Populus deltoides	EASTERN COTTONWOOD	POOR	7		726615.7	1790808.3	1
411020	Populus deltoides	EASTERN COTTONWOOD	POOR	11		726626.3	1790833.9	1
411022	Juglans nigra	WALNUT	GOOD	11		726637.9	1790839.8	1
411023	Salix ssp.	WILLOW	GOOD	11		726637.6	1790864.4	1
411025	Acer ssp.	MAPLE	GOOD	11		726639.7	1790868.5	1
411027	Juglans nigra	WALNUT	GOOD	10		726611.4	1790863	1
411035	Maclura pomifera	OSAGE ORANGE	GOOD	9		726667.7	1790915.4	1
411036	Populus deltoides	EASTERN COTTONWOOD	POOR	13		726653.2	1790913.5	2
411037	Juglans nigra	WALNUT	GOOD	6		726663.3	1790907.1	1
	1		1		1		47000400	
411039	Juglans nigra	WALNUT	GOOD	8		726669.6	1790849.2	1

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STREAM CORRIDOR
PROTECTION ZONE
REFORESTATION
SUMMARY TABLE

STREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
CITY OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000

SHEET NUMBER

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMEN' QUANTITY
421109	Quercus rubra	RED OAK	GOOD	13		728270.8	1791778.4	2
421111	Quercus rubra	RED OAK	GOOD	11		728270.6	1791787.1	1
421112	Populus deltoides	EASTERN COTTONWOOD	GOOD	17		728255.9	1791800.4	2
421113	Ulmus americana	ELM	GOOD	11		728238.2	1791789.4	1
451001	Carya ovata	SHAG BARK HICKORY	GOOD	8		728231.6	1791751.9	1
451002	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		728228.9	1791761.4	2
451003	Populus deltoides	EASTERN COTTONWOOD	GOOD	22		728226.8	1791765	3
151004	Populus deltoides	EASTERN COTTONWOOD	GOOD	19		728220.4	1791763.9	3
151005	Populus deltoides	EASTERN COTTONWOOD	POOR	22		728213.4	1791767	3
	•							
151006	Juglans nigra	WALNUT	GOOD	9		728212.9	1791742.1	1
151007	Ulmus americana	ELM	GOOD	6		728208.1	1791742.3	1
51008	Ulmus americana	ELM	GOOD	11		728206	1791734.1	1
51010	Ulmus americana	ELM	GOOD	7		728193.4	1791719	1
451011	Crataegus pennsylvanica	HAWTHORN	GOOD	6		728198.5	1791706.3	1
151012	Ulmus americana	ELM	GOOD	6		728192.4	1791700.2	1
151012	Liriodendron	THUR DODLAR	COOD	7		720100 5	17016076	1
451013	tulipifera	TULIP POPLAR	GOOD	7		728188.5	1791687.6	1
151022	Carya ovata	SHAG BARK HICKORY	GOOD	11		728385.9	1791871.5	1
151023	Carya ovata	HICKORY	GOOD	7		728418.2	1791880	1
151024	Carya ovata	HICKORY	GOOD	7		728415.6	1791892.8	1
51025	Carya ovata	HICKORY	GOOD	11		728433.2	1791887.3	1
51025	Quercus alba	WHITE OAK	GOOD	11		728435.7	1791887.5	1
151027	Carya ovata	HICKORY	GOOD	6		728426.2	1791882.9	1
51028	Ulmus americana	ELM	GOOD	7		728454.6	1791882.5	1
51029	Acer ssp.	MAPLE	GOOD	11		728457.2	1791884	1
151036	Carya ovata	SHAG BARK HICKORY	GOOD	10		728528	1791927.8	1
151037	Carya ovata	SHAG BARK HICKORY	GOOD	6		728521	1791943.3	1
151038	Carya ovata	SHAG BARK HICKORY	GOOD	11		728541.8	1791934.8	1
151039	Quercus rubra	RED OAK	GOOD	18		728564.6	1791942.3	2
151040	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728552.1	1791965.4	2
151040	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		728590.3	1791905.4	1
	•							
151042	Juglans nigra	WALNUT	GOOD	6		728597.3	1791979.1	1
151048	Quercus rubra	RED OAK	GOOD	12		728670.5	1792003.6	2
451049	Carya ovata	HICKORY	GOOD	6		728668	1792000.9	1
451054	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728688	1792033.8	1
451055	Prunus serotina	BLACK CHERRY	GOOD	6		728674	1792019	1
451056	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728682.3	1792031	1
151057	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728743.8	1792024.5	2
451057 451061	Carya ovata	HICKORY	GOOD	8		728766.6	1792025.5	1
	<u> </u>							
451063	Juglans nigra	WALNUT	GOOD	12		728761	1792043.3	2
451064	Juglans nigra	WALNUT	GOOD	11		728780.7	1792042.7	1
151066	Ulmus americana	ELM	GOOD	8		728779.4	1792066.6	1
151070	Prunus serotina	BLACK CHERRY	GOOD	10		728806	1792081.9	1
151071	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728819.7	1792091.2	1
151072	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		728832	1792094.8	1
151073	Salix ssp.	WILLOW	FAIR	6		729225.5	1792275.2	1
151073	Ulmus americana	ELM	GOOD	6		729229.4	1792273.2	1
151075	Ulmus americana	ELM	GOOD	11		729233.3	1792257	1
151080	Ulmus americana	ELM	GOOD	8		729195.2	1792250.5	1
151081	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		729211.5	1792261.6	1
151082	Populus deltoides	EASTERN COTTONWOOD	FAIR	6		729176.8	1792241	1
151083	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		729171.5	1792249.7	2
151084	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		729166.2	1792250.1	1
151085	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		729160.4	1792247.1	2
151087	Ulmus americana	ELM	GOOD	10		729146.6	1792218.6	1
451088	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		729130.1	1792232.3	1
451088 451089	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		729130.1	1792232.3	
	·							2
151090	Ulmus americana	ELM	GOOD	9		729103	1792207.8	1
51091	Acer ssp.	MAPLE	GOOD	6		729091.2	1792221.8	1
151092	Ulmus americana	ELM	GOOD	7		729089.2	1792225.7	1
51093	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		729068.2	1792214.8	2
51094	Salix ssp.	WILLOW	GOOD	10		729051	1792206.6	1
451095	Fagus grandifolia	BEECH	GOOD	6		729041.6	1792198.1	1
151096	Populus deltoides	EASTERN COTTONWOOD	GOOD	9		729034.1	1792191.6	1
151090	Juglans nigra	WALNUT	POOR	12		729050.5	1792175.3	2
151107	Ulmus americana	ELM	GOOD	11		728932.2	1792128.1	1
151108	Populus deltoides	EASTERN COTTONWOOD	GOOD	18		728939.7	1792148.4	2
151109	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		728946.2	1792152.6	1
51110	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728953.7	1792156.6	2
151111	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		728963.2	1792156.3	1
- 1					1	<u> </u>	-	1

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
451113	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		728999.6	1792179.7	2
451114	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728994.3	1792178	2
451116	Ulmus americana	ELM	GOOD	13		728915.4	1792133.8	2
451117	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728912.5	1792136.6	1
451118	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728910.8	1792133.9	1
451119	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728892.7	1792130.9	1
451120	Ulmus americana	ELM	GOOD	10		728899.3	1792105.1	1
451121	Populus deltoides	EASTERN COTTONWOOD	GOOD	6		728871.9	1792119.5	1
451122	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		728867.9	1792115.2	2
451123	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		728850.7	1792110.3	1
451124	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		728844.2	1792103.7	1
451125	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		728841.9	1792101.8	2
461000	Populus deltoides	EASTERN COTTONWOOD	GOOD	9		729247.5	1792273.4	1
461001	Populus deltoides	EASTERN COTTONWOOD	GOOD	19		729263.8	1792278.9	3
461002	Populus deltoides	EASTERN COTTONWOOD	GOOD	21		729269.4	1792277.2	3
461009	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		729325.4	1792293.9	2
461010	Ulmus americana	ELM	GOOD	9		729345.1	1792299.1	1
461011	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		729364.2	1792299.7	2
461012	Populus deltoides	EASTERN COTTONWOOD	GOOD	7		729396.6	1792315.5	1
461013	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		729400.4	1792316.8	1
461013	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		729400.4	1792310.8	2
461014	Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD	GOOD	12		729421.8	1792317.2	2
	Populus deltoides Populus deltoides							
461016 461017	· ·	EASTERN COTTONWOOD	GOOD GOOD	14 12		729465.9	1792330.3	2
	Ulmus americana	ELM				729475.4	1792327	
461020	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		729482.9	1792332.9	2
461021	Ulmus americana	ELM	GOOD	7		729499.2	1792327.2	1
461022	Ulmus americana	ELM	FAIR	7		729530.1	1792342	1
461023	Liriodendron tulipifera	TULIP POPLAR	GOOD	10		729535	1792332.6	1
461024	Morus ssp.	MULBERRY	GOOD	10		729540.7	1792334.4	1
461025	Ulmus americana	ELM	GOOD	8		729531.9	1792324.3	1
461027	Ulmus americana	ELM	POOR	6		729539.5	1792345.8	1
461028	Ulmus americana	ELM	POOR	6		729556.8	1792343.7	1
461029	Ulmus americana	ELM	POOR	11		729579.7	1792355.7	1
461031	Ulmus americana	ELM	POOR	7		729595.9	1792362	1
461032	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		729593.2	1792365.8	2
461034	Populus deltoides	EASTERN COTTONWOOD	GOOD	6		728663.9	1792035.9	1
461035	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		728675.2	1792039.7	2
461036	Populus deltoides	EASTERN COTTONWOOD	GOOD	6		728678.7	1792040.6	1
461037	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		728688	1792047.2	2
461038	Populus deltoides	EASTERN COTTONWOOD	GOOD	7		728698.2	1792050.5	1
461039	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		728698.2	1792052.4	1
461041	Ulmus americana	ELM	GOOD	6		728724.1	1792063	1
461042	Ulmus americana	ELM	GOOD	6		728727.5	1792069.9	1
461043	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728732.1	1792067.1	2
461044	Populus deltoides	EASTERN COTTONWOOD	FAIR	13		728736.3	1792069.6	2
461045	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728782.8	1792093.4	1
461046	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		728790.2	1792096.3	2
461047	Populus deltoides	EASTERN COTTONWOOD	FAIR	12		728792.3	1792094.2	2
461048	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		728797.7	1792098.8	2
461049	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		728849.1	1792122.2	1
461050	Ulmus americana	ELM	POOR	9		728864.9	1792132.9	1
461050	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		728876.1	1792132.9	2
461051	Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD	GOOD	12		728912.4	1792153.4	2
461052	Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD	GOOD	10		728931.2	1792132.2	1
	· ·							
461054	Ulmus americana	EASTERN COTTONIWOOD	GOOD	8		728936.1	1792163.7	1
461055	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		729000.9	1792193.7	1
461056	Populus deltoides	EASTERN COTTONWOOD	GOOD	17		729004.9	1792194.4	2
461057	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		729020.2	1792201	2
461058	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		729018.4	1792203.5	1
461059	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		729026	1792206.8	1
	Populus deltoides	EASTERN COTTONWOOD	POOR	8		729048.7	1792215.8	1
461060		ELM	GOOD	8		729082.8	1792235.4	1
461061	Ulmus americana		•	4.4		729087.5	1792239	2
	Ulmus americana Populus deltoides	EASTERN COTTONWOOD	GOOD	14				
461061			GOOD FAIR	14		729135	1792252.2	2
461061 461062	Populus deltoides	EASTERN COTTONWOOD				729135 729183.2	1792252.2 1792272.4	2
461061 461062 461063	Populus deltoides Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD	FAIR	16				
461061 461062 461063 461065	Populus deltoides Populus deltoides Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD	FAIR GOOD	16 14		729183.2	1792272.4	2
461061 461062 461063 461065 461066	Populus deltoides Populus deltoides Populus deltoides Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD	FAIR GOOD GOOD	16 14 17		729183.2 729213.1	1792272.4 1792288.6	2
461061 461062 461063 461065 461066 461067	Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD	FAIR GOOD GOOD GOOD	16 14 17 12		729183.2 729213.1 729215.2	1792272.4 1792288.6 1792284	2 2 2
461061 461062 461063 461065 461066 461067 461068	Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Ulmus americana	EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD EASTERN COTTONWOOD ELM	FAIR GOOD GOOD GOOD	16 14 17 12 6		729183.2 729213.1 729215.2 729257.6	1792272.4 1792288.6 1792284 1792295	2 2 2 1

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STREAM CORRIDOR
PROTECTION ZONE
REFORESTATION
SUMMARY TABLE

STREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
CITY OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000

SHEET NUMBER

	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
461072	Acer ssp.	MAPLE	GOOD	7		729343.3	1792342.9	1
461073	Populus deltoides	EASTERN COTTONWOOD	GOOD	17		729382.9	1792331.5	2
461074	Acer ssp.	MAPLE	GOOD	6		729385.3	1792347.4	1
461075	Juglans nigra	WALNUT	GOOD	6		729387.5	1792355.5	1
461076	Ulmus americana	ELM	GOOD	10		729397.2	1792359.7	1
461077	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		729401.5	1792331.1	1
461078	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		729402.3	1792334.3	2
461079	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729415.4	1792334.1	2
461080	Populus deltoides	EASTERN COTTONWOOD	FAIR	14		729418	1792338.1	2
461081	Populus deltoides	EASTERN COTTONWOOD	GOOD	18		729425.2	1792341.5	2
461082	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		729428.9	1792338.3	1
461083	Populus deltoides	EASTERN COTTONWOOD	GOOD	11		729431.7	1792339.6	1
461084	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729436.2	1792341.3	2
461085	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		729438.9	1792344	2
461086	Ulmus americana	ELM	GOOD	10		729432.8	1792371.9	1
461087	Populus deltoides	EASTERN COTTONWOOD	GOOD	14		729445.3	1792343.2	2
461088	Ulmus americana	ELM	GOOD	10		729447.8	1792342.2	1
461089	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		729466.5	1792350.5	1
461090	Populus deltoides	EASTERN COTTONWOOD	GOOD	10		729477.2	1792355.6	1
461091	Ulmus americana	ELM	GOOD	8		729482.8	1792386.8	1
461092	Juglans nigra	WALNUT	GOOD	8		729486.3	1792385.8	1
461093	Juglans nigra	WALNUT	GOOD	8		729500.2	1792379.5	1
461094	Populus deltoides	EASTERN COTTONWOOD	GOOD	23		729520.3	1792365.9	3
461095	Populus deltoides	EASTERN COTTONWOOD	GOOD	17		729528.4	1792364.9	2
461096	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729570.5	1792383.6	2
461097	Populus deltoides	EASTERN COTTONWOOD	GOOD	15		729577.8	1792382.9	2
461098	Populus deltoides	EASTERN COTTONWOOD	GOOD	19		729595.7	1792386.5	3
461099	Juglans nigra	WALNUT	GOOD	11		729591.8	1792396.6	1
461104	Populus deltoides	EASTERN COTTONWOOD	GOOD	6		729622.8	1792403	1
461105	Populus deltoides	EASTERN COTTONWOOD	GOOD	6		729663.4	1792402.3	1
461106	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		729678.1	1792404.3	1
461107	Populus deltoides	EASTERN COTTONWOOD	GOOD	16		729686.5	1792407.1	2
461108	Populus deltoides	EASTERN COTTONWOOD	GOOD	19		729694.4	1792415.3	3
461109	Populus deltoides	EASTERN COTTONWOOD	GOOD	8		729707.9	1792426.4	1
461110	Carya ovata	SHAG BARK HICKORY	GOOD	8		729742.6	1792434.1	1
461111	Populus deltoides	EASTERN COTTONWOOD	POOR	14		729806.4	1792431.4	2
461112	Populus deltoides	EASTERN COTTONWOOD	GOOD	13		729814.9	1792432.7	2
461113	Populus deltoides	EASTERN COTTONWOOD	GOOD	22		729915	1792443.9	3
161111								
461114	Prunus serotina	BLACK CHERRY	GOOD	6		729944.8	1792481.2	1
461114	Prunus serotina Gleditsia tricanthos	BLACK CHERRY HONEY LOCUST	GOOD GOOD	6 12		729944.8 729941.7	1792481.2 1792463.7	2
461115	Gleditsia tricanthos	HONEY LOCUST	GOOD	12		729941.7	1792463.7	2
461115 461116 461117	Gleditsia tricanthos Prunus serotina	HONEY LOCUST BLACK CHERRY	GOOD GOOD	12 6		729941.7 729930.8	1792463.7 1792461.8	2
461115 461116 461117 461118	Gleditsia tricanthos Prunus serotina Acer ssp.	HONEY LOCUST BLACK CHERRY MAPLE	GOOD GOOD GOOD	12 6 12		729941.7 729930.8 729947.3	1792463.7 1792461.8 1792447.3	2 1 2
461115 461116 461117 461118 461119	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM	GOOD GOOD GOOD POOR	12 6 12 8		729941.7 729930.8 729947.3 728426.2	1792463.7 1792461.8 1792447.3 1791898.7	2 1 2 1
461115 461116 461117 461118 461119 461120	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM	GOOD GOOD GOOD POOR POOR	12 6 12 8 8		729941.7 729930.8 729947.3 728426.2 728451.9	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5	2 1 2 1
461115 461116 461117 461118 461119 461120 461121	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM	GOOD GOOD POOR POOR GOOD	12 6 12 8 8 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3	2 1 2 1 1
461115 461116 461117 461118 461119 461120 461121 461122	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD	12 6 12 8 8 9 7		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7	2 1 2 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD	12 6 12 8 8 9 7 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3	2 1 2 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD	12 6 12 8 8 9 7 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791923	2 1 2 1 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD	12 6 12 8 8 9 7 6 6 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791923 1791909	2 1 2 1 1 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD	12 6 12 8 8 9 7 6 6 11		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791905.7 1791919.3 1791923 1791909 1791908.3	2 1 2 1 1 1 1 1 1 2
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 9 7 6 6 6 11 12 8		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791923 1791909 1791908.3 1792358.7 1792349.1	2 1 2 1 1 1 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 9 7 6 6 6 11 12 8		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8	2 1 2 1 1 1 1 1 1 1 1 2 1 1 2 1 2
461115 461116	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 9 7 6 6 6 11 12 8		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791923 1791909 1791908.3 1792358.7 1792349.1	2 1 2 1 1 1 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides Populus deltoides Crataegus Crataegus Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 9 7 6 6 6 11 12 8		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8	2 1 2 1 1 1 1 1 1 1 1 2 1 1 2 1 2
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides Populus deltoides Crataegus pennsylvanica Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792379.7	2 1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM ELM ELM E	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792384.1	2 1 2 1 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792384.1 1792384.1 1792385	2 1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 1 2 1 1 2 1 2
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Quercus rubra Crataegus pennsylvanica Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Unus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792384.1 1792385 1792383.3	2 1 2 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792384.1 1792385.1 1792385.1	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Urataegus pennsylvanica Populus deltoides Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 11 12 8 8 12 10 6 10 12 7		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729719.4	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791999 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792387.7 1792384.1 1792385.1 1792385.1 1792385.8 1792379.5	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Ulmus americana Ulmus americana Ulmus americana Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729719.4 729771.1	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792387.7 1792383.3 1792385.8 1792385.8 1792385.8 1792379.5 1792404.3	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Ulmus americana Ulmus americana Ulmus americana Populus deltoides Salix ssp.	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729719.4 729771.1 729795.3	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792379.7 1792383.3 1792385.8 1792385.8 1792379.5 1792404.3 1792409.9	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014 471015	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Crataegus pennsylvanica Populus deltoides Ulmus deltoides Ulmus deltoides Ulmus americana Ulmus americana Populus deltoides Salix ssp. Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD POOR GOOD POOR POOR POOR POOR POOR POOR POOR P	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729620 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792379.7 1792383.3 1792385.8 1792385.8 1792379.5 1792404.3 1792409.9 1792392.5	2 1 2 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014 471015 471016	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Unus deltoides Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM ELM	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD POOR GOOD POOR POOR POOR POOR POOR POOR POOR P	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6 729818.9	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792379.7 1792383.3 1792385.8 1792385.8 1792379.5 1792404.3 1792409.9 1792416.1	2 1 2 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014 471015 471016 471017	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Salix ssp. Ulmus americana Ulmus americana Ulmus americana	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD ELM ELM ELM ELM ELM ELM ELM EL	GOOD GOOD POOR POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD POOR GOOD POOR POOR POOR POOR POOR POOR POOR P	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729639.9 729657.1 729650.4 729675.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6 729858.5	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792361.8 1792380.5 1792383.3 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792392.5 1792404.3 1792409.9 1792422.4	2 1 2 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1
461115 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014 471015 471016 471017 471019	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Urataegus pennsylvanica Populus deltoides Crataegus pennsylvanica Populus deltoides Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Salix ssp. Ulmus americana Populus deltoides Ulmus americana Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD WILLOW ELM ELM ELM ELM ELM ELM ELM EL	GOOD GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6 729858.5 729888.4	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792381.8 1792383.3 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8	2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1
461115 461116 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471013 471014 471015 471016 471017 471019 471019	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Urataegus pennsylvanica Populus deltoides Populus deltoides Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Salix ssp. Ulmus americana Ulmus americana Populus deltoides Ulmus americana Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD RED OAK HAWTHORN EASTERN COTTONWOOD ELM ELM ELM ELM EASTERN COTTONWOOD WILLOW ELM ELM ELM ELM ELM ELM ELM EL	GOOD GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6 729818.9 729858.5 729888.4 729921.2	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792361.8 1792381.1 1792384.1 1792385.1 1792383.3 1792385.8 1792385.8 1792385.8 1792385.8 1792379.5 1792404.3 1792409.9 1792422.4 1792422.4 1792422.4	2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
461115 461117 461118 461119 461120 461121 461122 461123 461124 461129 471000 471001 471003 471004 471005 471006 471007 471008 471009 471010 471010 471013 471014 471015 471016 471017 471019	Gleditsia tricanthos Prunus serotina Acer ssp. Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Populus deltoides Urataegus pennsylvanica Populus deltoides Crataegus pennsylvanica Populus deltoides Ulmus americana Ulmus americana Ulmus americana Ulmus americana Populus deltoides Salix ssp. Ulmus americana Populus deltoides Ulmus americana Populus deltoides	HONEY LOCUST BLACK CHERRY MAPLE ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD ELM ELM ELM ELM ELM ELM EASTERN COTTONWOOD WILLOW ELM ELM ELM ELM ELM ELM ELM EL	GOOD GOOD GOOD POOR POOR GOOD GOOD GOOD GOOD GOOD GOOD GOOD G	12 6 12 8 8 8 9 7 6 6 6 11 12 8 8 8 12 10 6 10 12 7 7 7 8 8 23 13 9 9		729941.7 729930.8 729947.3 728426.2 728451.9 728445.2 728471 728468.7 728475 728485.1 728513.5 729619 729639.9 729657.1 729650.4 729675.4 729686.2 729718.9 729716.7 729719.4 729771.1 729795.3 729823.6 729858.5 729888.4	1792463.7 1792461.8 1792447.3 1791898.7 1791901.5 1791903.3 1791905.7 1791919.3 1791909 1791908.3 1792358.7 1792349.1 1792381.8 1792383.3 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8 1792385.8	2 1 2 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
471025	Populus deltoides	EASTERN COTTONWOOD	GOOD	18		729957.5	1792382.7	2
471026	Crataegus pennsylvanica	HAWTHORN	GOOD	7		729943.9	1792377.9	1
471027	Ulmus americana	ELM	GOOD	8		729931.6	1792368.2	1
471028	Ulmus americana	ELM	GOOD	8		729929.4	1792331.8	1
471029	Acer ssp.	MAPLE	GOOD	8		729949.1	1792323.6	1
471031	Ulmus americana	ELM	GOOD	6		729889.4	1792303.5	1
471032 471033	Ulmus americana Ulmus americana	ELM ELM	GOOD GOOD	9		729916.9 729930	1792279.3 1792281.9	1
471033	Ulmus americana	ELM	GOOD	9		729934.6	1792284.1	1
471035	Ulmus americana	ELM	GOOD	6		729922	1792260.8	1
471036	Ulmus americana	ELM	GOOD	11		729914.5	1792257.5	1
471037	Ulmus americana	ELM	GOOD	9		729891.1	1792259.7	1
471038	Ulmus americana	ELM	GOOD	9		729887.2	1792247.1	1
471039	Crataegus pennsylvanica	HAWTHORN	GOOD	6		729897.2	1792243.2	1
471040	Ulmus americana	ELM	GOOD	8		729906.3	1792231	1
471041	Ulmus americana	ELM	GOOD	13		729895	1792221.3	2
471042	Ulmus americana	ELM	GOOD	12		729880.5	1792213.8	2
471043	Ulmus americana	ELM	GOOD	6		729909.5	1792218.1	1
471044	Ulmus americana	ELM	GOOD	9		729932.5	1792220.6	1
471045	Crataegus pennsylvanica	HAWTHORN	FAIR	6		729916.8	1792188.6	1
471046	Acer ssp.	MAPLE	GOOD	10		729921.8	1792185.2	1
471047	Juglans nigra	WALNUT	GOOD	6		729872.4	1792173.8	1
471048	Juglans nigra	WALNUT	GOOD	6		729861.9	1792139.1	1
471049	Populus deltoides	EASTERN COTTONWOOD	GOOD	25		729935.9	1792172.4	4
471050	Populus deltoides	EASTERN COTTONWOOD	FAIR	25		729981.9	1792191.6	4
471051	Ulmus americana	ELM	GOOD	9		729947.7	1792200.5	1
471052	Ulmus americana	ELM	GOOD	9		729958.2	1792203.2	1
471053	Ulmus americana	ELM	POOR	9		729954.5	1792240.6	1
471054	Ulmus americana	ELM	POOR	9		729956.6	1792255.1	1
471055	Ulmus americana	ELM	FAIR	11		729952	1792256.2	1
471056	Ulmus americana	ELM	FAIR	12		729953.7	1792264.5	2
471057	Prunus serotina	BLACK CHERRY	GOOD	10		729993.7	1792265.4	1
471058	Salix ssp.	WILLOW	POOR	10		729954.7	1792298.3	1
471059 471060	Populus deltoides Populus deltoides	EASTERN COTTONWOOD EASTERN COTTONWOOD	GOOD GOOD	24 12		729965.5 729965.5	1792339.5 1792348.2	2
471060	Populus deltoides	EASTERN COTTONWOOD	GOOD	19		729965.5	1792348.2	3
471061	Prunus serotina	BLACK CHERRY	GOOD	9		729984	1792363.8	1
471063	Salix ssp.	WILLOW	POOR			729969.4	1792373.3	1
471064	Populus deltoides	EASTERN COTTONWOOD	GOOD	12		729974.4	1792408.2	2
471065	Populus deltoides	EASTERN COTTONWOOD	GOOD	18		729983.4	1792437.1	2
4E+06	Liquidamber styraciflua	SWEETGUM	POOR	9		723843.3	1791327.9	1
4E+06	Prunus serotina	BLACK CHERRY	GOOD	6		723795.3	1791371.6	1
4E+06	Pyrus calleryana	ORNAMENTAL PEAR	GOOD	6		723698.5	1791456.6	1
4E+06	Prunus serotina	BLACK CHERRY	POOR	6		723466	1791677.2	1
4E+06	Prunus serotina	BLACK CHERRY	GOOD	9		723303.5	1791845.9	1
4E+06	Prunus serotina	BLACK CHERRY	GOOD	6		723228.3	1791937	1
4E+06	Juniperus virginiana	EASTERN RED CEDAR	GOOD	6		723262.7	1791929.2	1
4E+06	Acer negundo	BOX ELDER	GOOD	6		723318.6	1791766.6	1
4E+06	Juniperus virginiana	EASTERN RED CEDAR	GOOD	6		723581.2	1791510.7	1
Tree 21	Acer saccharinum	SILVER MAPLE	GOOD	6		728531.1	1791909. 7	1
Tree 62	Quercus alba	WHITE OAK	GOOD	16		728454.4	1791839. 2	2
Tree 63	Ulmus americana	AMERICAN ELM	GOOD	12		728475.0	1791827. 9	2
Tree 65	Ulmus americana	AMERICAN ELM	GOOD	14		728491.6	1791761.4	2
Tree 66	Ulmus americana	AMERICAN ELM	GOOD	13		72891.5	1791874.	2
Tree 67	Ulmus americana	AMERICAN ELM	GOOD	7		728510.4	7 1791863	1
Tree 68	Ulmus americana	AMERICAN ELM	GOOD	9		78522.6	1791885.	1
Tree 69	Quercus bicolor	SWAMP WHITE OAK	GOOD	 		78522.6	7 1791861.6	2
Tree 70	Quercus bicolor Quercus alba	WHITE OAK	GOOD	23		728515.6	1791859.	2
Tree 72	Juglans nigra		GOOD	15		728560.9	2 1791854.	2
		BLACK WALNUT					5 1791842.	
Tree 73	Quercus bicolor	SWAMP WHITE OAK	GOOD	17		728565.1	9 1791835.	2
Tree 74	Quercus bicolor	SWAMP WHITE OAK	GOOD	16		728564.5	5	2
Tree 82	Caryan ovata	HICKORY	GOOD	9		728547.1	1791754. 2	1
Tree 83	Caryan ovata	HICKORY	GOOD	8		728549.2	1791771.5	1

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STREAM CORRIDOR
PROTECTION ZONE
REFORESTATION
SUMMARY TABLE

STREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
CITY OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000

SHEET NUMBER

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
Tree 87	Ulmus americana	AMERICAN ELM	GOOD	7		728536.5	1791778. 8	1
Tree 88	Ulmus americana	AMERICAN ELM	GOOD	8		728518.1	1791784. 4	1
Tree 89	Ulmus americana	AMERICAN ELM	GOOD	9		728508	1791795. 2	1
Tree 90	Caryan ovata	HICKORY	GOOD	7		728500.2	1791816.6	1
Tree 91	Ulmus americana	AMERICAN ELM	GOOD	11		728526.8	1791829. 8	1
Tree 92	Ulmus americana	AMERICAN ELM	GOOD	7		728538.4	1791823.1	1
Tree 93	Ulmus americana	AMERICAN ELM	GOOD	11		728528.6	1791865. 2	1
					•	•	TOTAL	691

^{*}Locations are approximate and based on sub-meter accuracy GPS provided by CESO Survey, dated 02/18/2022.

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STREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS

BUCKEYE YARD

CITY OF COLUMBUS, FRANKLIN COUNTY, OH

SUMMARY

ORIGINAL ISSUE: 10/17/2022

KHA PROJECT NO. 190118000

SHEET NUMBER

^{*}The diameter at breast height value shown in the table above for multi-trunk tree(s) is the average diameter of the multipe tree stems.

^{*}All plant materials shall be in accordance with the most recent ANSI Z60.1 publication.

^{*}All replacement trees shall be between 1" CAL MIN.

^{*}Additional bare root plantings are required at a rate of 400 native wood plants per acre and a min. of 136 trees per acre. All tree plantings shall be warrantied at a 100% survival rate for a period of 1 year. Bare root plantings and containerized shrubs shall be warranted at a rate of 80%. Planting after 5/7 requires watering throughout the remainder of the spring and summer.

TREE REPLACEMENT PLANT LIST

Common Name	Genus	Species	Family	Location	Total	% of total	per acre
Red Maple	Acer	rubrum	Sapindaceae	Floodplain/Shoreline	85	3%	
Sugar Maple	Acer	saccharinum	Sapindaceae	Floodplain/Shoreline	85	3%	
Black Maple	Acer	nigrum	Sapindaceae	Floodplain/Shoreline	85	3%	
Silver Maple	Acer	saccharum	Sapindaceae	Floodplain/Shoreline	85	3%	
Norway Maple	Acer	platanoides	Sapindaceae	Upland	85	3%	
Boxelder	Acer	negundo	Sapindaceae	Floodplain/Shoreline	85	3%	
Shagbark Hickory	Carya	ovata	Juglandaceae	Upland	100	4%	
American Chestnut	Castanea	dentata	Fagaceae	Upland	85	3%	
American Sycamore	Platanus	occidentalis	Platanacea	Floodplain/Shoreline	100	4%	
Eastern Cottonwood	Populus	deltoides	Salicaceae	Floodplain/Shoreline	100	4%	
Black Willow	Salix	nigra	Salicaceae	Floodplain/Shoreline	85	3%	
Peachleaf Willow	Salix	amydaloides	Salicaceae	Floodplain/Shoreline	85	3%	
Yellow Buckeye	Aesculus	flava	Hippocastanaceae	Upland	85	3%	
Ohio Buckeye	Aesculus	glabra	Hippocastanaceae	Floodplain/Shoreline	85	3%	
Honey Locust	Gleditsia	tricanthos	Caesalpanaceae	Floodplain/Shoreline	85	3%	
American Basswood	Tilia	americana	Tiliaceae	Floodplain/Shoreline	85	3%	
Kentucky Coffee Tree	Gymnocladus	dioicus	Fabaceae	Upland	85	3%	
Austrian Pine	Pinus	nigra	Pinaceae	Upland	90	3%	
Scotch Pine	Pinus	sylvestris	Pinaceae	Upland	100	4%	
Pin Oak	Quercus	palustris	Fagaceae	Floodplain/Shoreline	85	3%	
Blackjack Oak	Quercus	marilandica	Fagaceae	Upland	50	2%	
Post Oak	Quercus	stellata	Fagaceae	Upland	100	4%	
Scarlett Oak	Quercus	coccinea	Fagaceae	Upland	80	3%	
Chinquapin Oak	Quercus	muehlenbergii	Fagaceae	Upland	80	3%	
Swamp White Oak	Quercus	bicolor	Fagaceae	Floodplain/Shoreline	100	4%	
Red Mulberry	Morus	rubra	Moraceae	Floodplain/Shoreline	85	3%	
American Elm	Ulmus	americana 'Princeton'	Ulmaceae	Floodplain/Shoreline	85	3%	
American Elm	Ulmus	americana 'Jefferson'	Ulmaceae	Floodplain/Shoreline	85	3%	
American Elm	Ulmus	americana 'Valley Forge'	Ulmaceae	Floodplain/Shoreline	85	3%	
American Elm	Ulmus	americana 'Lewis & Clark'	Ulmaceae	Floodplain/Shoreline	85	3%	
Hackberry	Celtis	occidentalis	Ulmaceae	Floodplain/Shoreline	85	3%	
Papaw	Asimina	triloba	Annonaceae	Floodplain/Shoreline	80	3%	

NOTE: PLANTINGS WITHIN THE SCPZ MITIGATION AREA SHALL BE INSTALLED IN AN IRREGULAR MANNER THAT WILL APPEAR NATURAL (AVOID GRID OR ROW BASED PLANTINGS). ALL TREES SHALL BE PROTECTED WITH TREE GUARDS TO PREVENT DAMAGE BY MALE DEER, VOLES, AND OTHER WILDLIFE. TREE GUARDS SHOULD BE A MINIMUM OF OF 4-INCHES IN DIAMETER, 3' IN HEIGHT (OR TO LOWEST BRANCH) AND INSTALLED WTH SECURE CONTACT TO THE GROUND.

Category (min needed/%)				
Total Trees (2,765)		2765		
Total Shoreline Trees (65%)		1825	66%	
Total Upland Trees (35%)		940	34%	

SHRUB/LIVE STAKING PLANT LIST

Common Name	Genus	Species	Family	Location	Total	% of total	per acre
Smooth Alder	Alnus	serrulata	Betulaceae	OBL - Wetland			
Bog-Rosemary	Andromeda	glaucophylla	Ericaeae	OBL - Wetland			
Red Chokeberry	Aronia	arbutifolia	Rosaceae	FACW - Facilitative Wetland	200		
Red-Osier Dogwood	Cornus	sericea	Cornaceae	(FACW+) - Facilitative Wetland	302		
Silky Dogwood	Cornus	amomum	Cornaceae	FACW - Facilitative Wetland	250		
Autumn Willow	Salix	serissima	Salicaceae	OBL - Wetland	300		
Silky Willow	Salix	sericea	Salicaceae	OBL - Wetland	250		
Common Elderberry	Sambucus	canadensis	Caprifoliaceae	(FACW-) - Facilitative Wetland	250		
Total Whole area (8,132)					1552		
otal live stake area (1,552)					<i>1552</i>		

PLEASE NOTE INFORMATION IN PROGRESS

Genus	Percent Total
Acer	18%
Carya	4%
Castanea	3%
Platanus	4%
Salix	6%
Aesculus	6%
Gleditsia	3%
Tilia	3%
Gymnocladus	3%
Pinus	7%
Quercus	18%
Morus	3%
Ulmus	12%
Celtis	3%
Asimina	3%
Populus	4%
TOTAL	100%
Family	Percent Total
Sapindaceae	18%
Juglandaceae	4%
F	240/

Family	Percent Total
Sapindaceae	18%
Juglandaceae	4%
Fagaceae	24%
Platanacea	4%
Salicaceae	10%
Hippocastanaceae	6%
Caesalpanaceae	3%
Tiliaceae	3%
Pinaceae	7%
Moraceae	3%
Ulmaceae	15%
Annonaceae	3%
TOTAL	100%

REVISIONS DATE BY APR DATE APR

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DESIGNED BY: MCS
DRAWN BY: MCS
CHECKED BY: JMM

REFORESTATION PLANTING LISTS

TREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
Y OF COLUMBUS, FRANKLIN COUNTY, OF

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000

SHEET NUMBER

SEED MIXES

UPPER SHORELINE SEED MIX

MIX 167 - NOTHERN RIPARIAN BUFFER MIX							
	Common Name Botanical Name PLS Oz.						
Fowl Bluegrass	Poa palustris	0.3					
Tickle Grass	Agrostis scabra	0.1					
Canada Wild Rye	Elymus canadensis	1.2					
Barnyard Grass	Echinochloa muricata	0.7					
Big Bluestem	Andropogon gerardii	2.75					
Deer Tongue Grass	Panicum clandestinum	1.1					
Fall Panicum	Panicum anceps	1.1					
Switchgrass	Panicum virgatum	2.75					
Ohio Spiderwort	Tradescantia ohiensis	0.4					
American Senna	Senna hebecarpa	1					
White Snakeroot	Eupatorium rugosum	0.1					
Lance-Leaved Goldenrod	Euthamia graminifolia	0.4					
False Sunflower	Heliopsis helianthoides	0.6					
Cup Plant	Silphium perfoliatum	1					
Swamp Milkweed	Asclepias incarnata	0.4					
Showy Tickseed	Bidens aristosa	0.5					
Sneezeweed	Helenium autumnale	0.3					
Yellow Wingstem	Verbesina alternifolia	0.6					
New York Ironweed	Vernonia noveboracensis	0.4					
New England Aster	Aster novae-angliae	0.3					

MIX AVAILABLE FROM ROUNDSTONE SEED, MIX 167

SEED AT RATE OF 10 PLS POUNDS/ACRE

SEED WITH COVER CROP OF OATS, JAPANESE MILLET, WINTER PEA, OR ANNUAL RYE DEPENDENT ON SEASON, AT A RATE OF 12 POUNDS/ACRE

SPECIFIED MIX DEPENDENT ON AVAILABILITY DURING TIME OF CONSTRUCTION AND CHANGES TO SUPPLIER'S MIX COMPOSITION.

UPLAND PLANTING SEED MIX

MIX NS-D1 - NORTHERN POLLINATOR CONSERVATION MIX					
Common Name	Botanical Name	PLS Oz.			
Yarrow	Achillea millefolium	0.147			
Lance Leaved Coreopsis	Coreopsis lanceolata	0.887			
Appalachian Beardtongue	Penstemon lavigatus	0.094			
Bergamot	Monarda fistulosa	0.218			
Common Milkweed	Asclepias syriaca	0.712			
Butterfly Milkweed	Asclepias tuberosa	0.655			
Blackeyed Susan	Rudbeckia hirta	0.641			
Goats Rue	Tephrosia virginiana	0.503			
Prairie Blazing Star	Liatris pycnostachya	0.282			
Greyheaded Coneflower	Ratibida pinnata	0.68			
Purple Coneflower	Echinacea purpurea	1.95			
Wild Senna	Cassia marilandica	1.406			
False Sunflower	Heliopsis helianthoides	1.199			
White Wingstem	Verbesina virginica	0.525			
Joe-Pye Weed	Eupatorium fistulosum	0.137			
Roundhead Lespedeza	Lespedeza capitata	0.384			
Partridge Pea	Cassia fasciculata	0.911			
Tall Coreopsis	Coreopsis tripteris	0.235			
Evening Primrose	Oenothera biennis	0.198			
Hairy Mountain Mint	Pycnanthemum pilosum	0.047			
New England Aster	Aster novae-angliae	0.227			
Iron Weed	Vernonia altissima	0.427			
Tall Goldenrod	Solidago altissima	0.535			
Little Bluestem	Schizachyrium scoparium	0.771			
Indian Grass	Sorghastrum nutans	1.102			
Switchgrass	Panicum virgatum	0.742			
Tall Dropseed	Sporobolus compositus	0.385			

MIX AVAILABLE FROM ROUNDSTONE SEED, MIX NS-D1

SEED AT RATE OF 8 PLS POUNDS/ACRE

SEED WITH COVER CROP OF OATS, JAPANESE MILLET, WINTER PEA, OR ANNUAL RYE DEPENDENT ON SEASON, AT A RATE OF 15 POUNDS/ACRE

SPECIFIED MIX DEPENDENT ON AVAILABILITY DURING TIME OF CONSTRUCTION AND CHANGES TO SUPPLIER'S MIX COMPOSITION.

PERMANENT SEED MIX

(INSTALL OUTSIDE SCPZ UPTO LIMITS OF DISTURBANCE)

Common Name	AND EDGE / PART SHADE MIX Botanical Name	PLS Oz.
Bottlebrush Grass	Elymus hystrix	0.5
Virginia Wild Rye	Elymus virginicus	2.3
Canada Wild Rye	Elymus canadensis	1
Creeping Red Fescue	Festuca rubra	1.5
Fall Panicum	Panicum anceps	1.6
Upland Bentgrass	Agrostis perennans	0.1
Broomsedge	Andropogon virginicus	0.5
Purple Top	Tridens flavus	1
Deer Tongue Grass	Panicum clandestinum	1
Fox Sedge	Carex vulpinoidea	0.5
Lance Leaved Coreopsis	Coreopsis lanceolata	1
White Wild indigo	Baptisia alba	0.2
Ohio Spiderwort	Tradescantia ohiensis	0.5
Large Coreopsis	Coreopsis major	0.5
Columbine	Aquilegia canadensis	0.5
Bergamot	Monarda fistulosa	0.2
Lupine	Lupinus perennis	1
Slender Mountain Mint	Pycnanthemum tenuifolium	0.15
Purple Coneflower	Echinacea purpurea	0.5
Showy Tickseed	Bidens aristosa	0.75
Evening Primrose	Oenothera biennis	0.2
Smooth Aster	Aster laevis	0.3
Gray Goldenrod	Solidago nemoralis	0.2

MIX AVAILABLE FROM ROUNDSTONE SEED, MIX 180

SEED AT RATE OF 10 PLS POUNDS/ACRE

SEED WITH COVER CROP OF OATS, JAPANESE MILLET, WINTER PEA, OR ANNUAL RYE DEPENDENT ON SEASON, AT A RATE OF 12 POUNDS/ACRE

SPECIFIED MIX DEPENDENT ON AVAILABILITY DURING TIME OF CONSTRUCTION AND CHANGES TO SUPPLIER'S MIX COMPOSITION.

 № HOFT
 IND.
 RESOCIATES, INC.
 INC.
 REVISIONS
 PARE DATE
 APR DATE
 APR DATE
 APR BY

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REFORESTATION-SEED MIXES

STREAM CORRIDOR PROTECTION ZONE
REFORESTATION PLANS
BUCKEYE YARD
Y OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000

EC5.5

SHEET NUMBER

Height measurements shall be in one-foot intervals. Caliper measurements shall be 1/8-inch intervals from ½" through ¾", ¼-inch intervals through 1¾-2", then ½-inch intervals through 5½-6", then one-inch intervals through 9-10", then two-inch intervals from 10-12" and up. Decimal equivalents to fractions may be used.

Examples: Acacia stenophylla, Acer rubrum, A. saccharinum, Betula, Cinnamomum camphora, Eucalyptus microtheca, Fraxinus, Ginkgo, Gleditsia, Liriodendron, Platanus, Populus, Quercus macrocarpa, Q. palustris, Q. phellos, Q. virginiana (southeastern climates), Salix. Tilia Americana, Zelkova serrata

Caliper / height specification	Average height range	Typical maximum height	Minimum root ball diameter	Minimum root ball depth	Acceptable container classes	Minimum acceptable in- ground fabric bag size (diameter)
½ in. / 4 ft.	4 to 5 ft.	6 ft.	12 in.	7 % in	#2,#3,#5	5 in.
% in. / 5 ft.	5 to 6 ft.	8 ft.	13 in.	8 ¾ in	#3, #5,#7	8 in.
¾ in. / 6 ft.	6 to 8 ft.	10 ft.	14 in.	9 in.	#5,#7,#10	8 in.
1 in. / 7 ft.	8 to 10 ft.	11 ft.	16 in.	10 ¾ in.	#7,#10,#15	10 in.
1 ¼ in.	8 to 10 ft.	12 ft.	18 in.	11 ¾ in.	#10,#15,#20	10 in.
1 ½ in.	10 to 12 ft.	14 ft.	20 in.	12 in.	#15,#20,#25	12 in.
1 ¾ in.	10 to 12 ft.	14 ft.	22 in.	13 ½ in.	#15,#20,#25,#45	14 in.

Table 4 - Specifications for Type 2 shade trees

Specifications for field grown Type 2 shade trees shall include plant size, by caliper. Specifications for container grown Type 2 shade trees shall include plant size, by height, through 7-8' size designation, and container class. Thereafter, plant size specification shall be by caliper.

Height measurements shall be in one-foot intervals. Caliper measurements shall be ¼-inch intervals through 1¾-2", then ½-inch intervals through 5½-6", then one-inch intervals through 9-10", then two-inch intervals from 10-12" and up. Decimal equivalents to fractions may be used.

Examples: Aesculus pavia, Brachychiton acerifolius, Celtis reticulata, Cladrastis lutea (kentukea), Cocculus laurifolius, Conocarpus erectus var. sericeus, Fagus sylvatica, Koelreuteria paniculata, Liquidamber styraciflua, Magnolia grandiflora, Nyssa sylvatica, Quercus alba, Q. fusiformis, Sorbus sucuparia, Syringa reticulata, Tabebuia cariaba, Tilia cordata, T. euchlora

Caliper / height specification	Minimum height (¾ Type 1 height)	Typical maximum height	Minimum root ball diameter	Minimum root ball depth	Acceptable container classes	Minimum acceptable in-ground fabric bag size (diameter)
1/4 in. / 2 ft.					#1,#2,#3	5 in.
1/2 in. / 4 ft.	3 ft.	6 ft.	12 in.	7 ½ in.	#2,#3,#5	5 in.
¾ in. / 6 ft.	4 ft.	7 ft.	14 in.	9 in.	#5,#7,#10	8 in.
1 in. / 7ft.	5 ft.	8 ft.	16 in.	10 ¾ in.	#7,#10,#15	10 in.
1 ¼ in.	6 ft.	9 ft.	18 in.	11 ¾ in.	#10,#15,#20	10 in.
1 ½ in.	7 ft.	10 ft.	20 in.	12 in.	#15,#20,#25	12 in.
1 ¾ in.	8 ft.	11 ft.	22 in.	13 ½ in.	#15,#20, #25,#45	14 in.
2 in.	8 ft.	12 ft.	24 in.	14 ¾ in.	#20,#25,#45	16 in.
2 ½ in.	8 ft.	14 ft.	28 in.	17 in.	#25,#45,#65	18 in.
3 in.	9 ft.	15 ft.	32 in.	19 in.	#45,#65,#95/100	20 in.
3 ½ in.	9 ft.	16 ft.	38 in.	23 in.	#65,#95/100	22 in.
4 in.	11ft.	18 ft.	42 in.	25 in.	#95/100	24 in.
4 ½ in.	12 ft.	20ft.	48 in.	29 in.		30 in.
5 in.	13 ft.	22 ft.	54 in.	32 in.		
5 ½ in.			57 in.	34 in.		
6 in.			60 in.	36 in.		
7 in.			70 in.	42 in.		
8 in.			80 in.	48 in.		

Table 9 - Deciduous shrubs - Type 0 tender shrubs

Plant size specification indicates height or spread, whichever is greater, after one full season of growth after shipment, using three-inch intervals through 15-18", then six-inch intervals through 30-36", then one foot intervals from 3-4' and up.

Examples: Buddleia, Caesalpina pulcherrima, Caryopteris, Hydrangea macrophylla, H. arborescens, Vitex

or spread	number of canes	spread of roots or root ball diameter	Minimum root ball depth	Acceptable container classes	acceptable in- ground fabric bag size (diameter)
6 in.	2	3 in.	1 % in.	#SP4,#1,#2	5 in.
9 in.	2	4 in.	2 % in.	#1,#2,#3	5 in.
12 in.	3	5 in.	3 ¼ in.	#1,#2,#3,#5	5 in.
15 in.	3	7 in.	4 ½ in.	#2,#3,#5	5 in.
18 in.	4	9 in.	5 ¾ in.	#3,#5,#7	8 in.
24 in.	4	11 in.	7 1/8 in.	#5,#7,#10	8 in.

Table 10 – Deciduous shrubs – Type 1 small or dwarf shrubs

Plant size specification indicates height or spread, whichever is greater, using three-inch intervals through 15-18", then six-inch intervals through 30-36"

Examples: Berberis thunbergii 'Crimson Pygmy,' Cotoneaster apiculata, C. dameri 'Coral Beauty,' C. horizontalis, Cytisus prostrata, Deutzia gracilis 'nikko,' Forsythia 'Arnold Dwarf,' F. x bronxensis, F. x Gold Tide, Fothergilla 'Blue Mist,' Genista pilosa, Itea virginica Little Henry, Salix prostrata, Spiraea japonica 'alpina,' S. 'Gold Mound,' S. 'Little Princess,' Symphoricarpos x chenaulti, Viburnum opulus nanum, Weigela floribunda 'Minuet'

Height or Spread	Minimum number of canes	Minimum spread of roots or root ball diameter	Minimum root ball depth	Acceptable container classes	Minimum acceptable in- ground fabric bag size (diameter)
6 in.	3	4 in.	2 % in.	#SP4,#1	5 in.
9 in.	3	6 in.	3 % in.	#1,#2	5 in.
12 in.	4	8 in.	5 ¼ in.	#1,#2,#3	5 in.
15 in.	4	9 in.	5 ¾ in.	#2,#3,#5	5 in.
18 in.	5	10 in.	6 ½ in.	#3,#5	8 in.
24 in.	5	11 in.	7 ½ in.	#5,#7	8 in.
30 in.	6	12 in.	7 ¾ in.	#5,#7,#10	10 in.

Table 11 - Deciduous shrubs - Type 2 intermediate

Plant size specification indicates height, using three-inch intervals through 3-6", then six-inch intervals through 18-24", then one-foot intervals from 2-3' to 6'7'

Examples: Azalea x (exbury, mollis hybrids), Chaenomeles japonica, Cornus sericea, Cotoneaster devaricata, Euonymus alata 'Compacta,' Fothergilla 'Mount Airy,' Lagerstroemia indica 'Victor,' Potentilla fruticosa, Spiraea x bumalda 'Froebelii,' S. nipponica 'Snowmound,' S. x vanhouttei, Viburnum carlesii, V. juddi, Weigela floribunda Wine & Roses, 'Vanicek,' W. florida 'Java Red'

Height	Minimum number of canes	Minimum spread of roots or root ball diameter	Minimum root ball depth	Acceptable container classes	Minimum acceptable in- ground fabric bag size (diameter)
6 in.	3	6 in.	3 1/8 in.	#SP4,#1	5 in.
12 in.	3	8 in.	5 ¼ in.	#1,#2	5 in.
18 in.	4	10 in.	6 ½ in.	#2,#3,#5	8 in.
2 ft.	4	12 in.	7 ¾ in.	#3,#5,#7	8 in.
3 ft.	5	14 in.	9 in.	#5,#7,#10	10 in.
4 ft.	5	18 in.	11 in.	#7,#10,#15	12 in.
5 ft.	6	24 in.	14 in.	#10,#15,#25	14 in.
6 ft.	6	30 in.	18 in.	#15,#25	16 in.

Table 12 – Type 3 large or tall deciduous shrubs

Plant size specification indicates height, using three-inch intervals through 3-6", then six-inch intervals through 18-24", then one-foot intervals through 5-6', then two-feet intervals from 6-8' and up.

Examples: Amelanchier laevis, Cornus racemosa, Forsythia (tall varieties), Hamamelis virginiana, Ilex verticillata, Ligustrum (tall varieties), Physocarpus, Syringa 'Madame Lemoine,' Viburnum opulus, V. lantana, V. plicatum, Weigela floribunda 'Eva Radke'

Height	Minimum number of canes	Minimum spread of roots or root ball diameter	Minimum root ball depth	Acceptable container classes	Minimum acceptable in- ground fabric bag size (diameter)
12 in.	3	8 in.	5 ¼ in.	#1	5 in.
18 in.	4	10 in.	6 ½ in.	#2,#3	8 in.
2 ft.	5	12 in.	7 ¾ in.	#2,#3,#5	8 in.
3 ft.	5	16 in.	10 in.	#5,#7,#10	10 in.
4 ft.	6	20 in.	12 in.	#7,#10,#15	12 in.
5 ft.	6	24 in.	14 in.	#10,#15,#25	14 in.
6 ft.	7	30 in.	18 in.	#10,#15,#25	16 in.
8 ft.	8	36 in.	21 in.	#15,#25,#45	18 in.
10 ft.	9	44 in.	26 in.	#25,#45,#65	22 in.
12 ft.	10	52 in.	31in.	#45,#65,#95/100	24 in.

PLEASE NOTE INFORMATION IN PROGRESS

Kimley » Horn

REFORESTATION PLANTING STANDARDS

REFORESTATION PLANS
BUCKEYE YARD

SF COLUMBUS, FRANKLIN COUNTY, C

ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000 SHEET NUMBER

FIRST YEAR

-INSTALLATION PERFORMED IN THE SPRING.

SUMMER:

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT HERBICIDE TREATMENTS

-CONDUCT MOWING AT LEAST ONCE DURING THE SUMMER. KEEPING NEWLY SEEDED AREAS 8-12 INCHES IN HEIGHT.

FALL:

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH SPOT HERBICIDE TREATMENTS. IN AREAS LEFT BARE FROM HERBICIDE TREATMENT HAND SEED WITH THE RESPECTIVE SEED MIX. -CONDUCT MOWING AT LEAST ONCE DURING THE FALL, KEEPING THE SEEDED AREAS 12 INCHES IN HEIGHT.

SECOND YEAR

-MOW DEAD STALKS AND SEED HEADS FROM THE PREVIOUS GROWING SEASON.

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA WITH AT LEAST ONE TO TWO SPOT HERBICIDE

-PLANT SUPPLEMENTAL SEED AS NEEDED TO ADDRESS AREAS OF POOR COVERAGE AND TO INCREASE COMPETITION AND BIO-DIVERSITY.

SUMMER:

-MOW SPENT COVER CROP TO KEEP NEAT APPEARANCE AND REDUCE SELF-SEEDING. -CONDUCT MOWING AT LEAST TWICE DURING THE GROWING SEASON KEEPING VEGETATION AT 8-12 INCHES IN HEIGHT.

FALL:

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA WITH SPOT HERBICIDE TREATMENTS. IN AREAS LEFT BARE FROM HERBICIDE TREATMENT HAND SEED WITH THE RESPECTIVE SEED MIX. -CONDUCT MOWING AT LEAST TWICE. KEEPING THE SEEDED AREAS 12 INCHES IN HEIGHT.

THIRD, FOURTH, AND FIFTH YEAR

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA THROUGH PHYSICAL REMOVAL OR SPOT HERBICIDE TREATMENTS.

SUMMER:

-CONDUCT MOWING IF TARGETED INVASIVE WOODY SPECIES ARE PREVALENT.

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA WITH AT LEAST ONE TO TWO SPOT HERBICIDE TREATMENTS.

FALL:

-CONTROL INVASIVE WOODY AND HERBACEOUS FLORA WITH AT LEAST ONE TO TWO SPOT HERBICIDE TREATMENTS.

PERFORMANCE STANDARDS

SATISFACTORY LANDSCAPE DEVELOPMENT ASSOCIATED WITH NATURALIZED VEGETATION WILL BE BASED ON THE FOLLOWING ITEMS.

FIRST YEAR:

WITHIN THREE MONTHS OF SEED INSTALLATION (OR THREE MONTHS AFTER THE START OF THE GROWING SEASON FOLLOWING DORMANT SEEDING), AT LEAST 90 PERCENT OF THE SEEDED AREA, AS MEASURED BY AERIAL COVER, WILL BE VEGETATED OR OTHERWISE STABILIZED AGAINST EROSION. THE COVER CROP MAY BE INCLUDED IN THIS MEASUREMENT.

SECOND YEAR:

BY THE END OF THE SECOND GROWING SEASON. THE PLANTED AREAS SHALL HAVE A MINIMUM OF 50 PERCENT GROUND COVER BY SPECIES IN THE APPROVED PLANT LIST

THIRD YEAR:

BY THE END OF THE THIRD GROWING SEASON, THE PLANTED AREAS SHALL HAVE A MINIMUM OF 75 PERCENT GROUND COVER BY SPECIES IN THE APPROVED PLANT LIST.

SECOND AND THIRD YEAR ADDITIONAL PERFORMANCE STANDARDS:

- NATURALIZED LANDSCAPES SHALL NOT HAVE MORE THAN ONE SQUARE-METER DEVOID OF VEGETATION, AS MEASURED BY AERIAL COVERAGE.
- SEEDED/PLANTED AREAS (EXCLUDING EMERGENT ZONE) SHALL HAVE NO RILLS OR GULLIES GREATER THAN FOUR INCHES WIDE BY FOUR INCHES DEEP
- AREAS SEEDED TO TURFGRASS OR LOW-MAINTENANCE TURF SHALL HAVE 95 PERCENT GROUND
- INSTALLED WOODY MATERIALS WITHIN THE NATURALIZED LANDSCAPE AREA SHALL BE ALIVE. IN HEALTHY CONDITION, AND REPRESENTATIVE OF THE SPECIES.

MONTH	VISITS BY CREW	HERBICIDE	CLEARING	MOWING	MONITORING
APRIL	0-1	Χ	X		
MAY	1-2	Х	Х		Х
JUNE	1-2	Х		Х	Х
JULY	1-2	Х			Х
AUGUST	1-2	Х		Х	Х
SEPTEMBER	0-1	Х			Х
OCTOBER	1-2	Х	Х	Х	X
NOVEMBER	0-1	Х	Х		Х
DECEMBER - MARCH	0-1	Х	Х		

SPOT-APPLIED BRUSH

TREE / SHRUB ESTABLISHMENT

PREPARATION

HOLES DUG FOR TREES AND SHRUBS SHALL BE NO DEEPER THAN THE ROOTBALL OR CONTAINER, MEASURED TO THE TRUNK FLARE. DIAMETER OF HOLES SHALL BE TWICE THE DIAMETER OF THE ROOT BALL FOR TREES, AND AT MINIMUM 6 INCHES BEYOND THE DIAMETER OF CONTAINERS FOR SHRUBS.

INSTALLATION

INSTALL TREES AND SHRUBS SO THAT THE TRUNK FLARE IS AT A MAXIMUM 2 INCHES ABOVE GRADE, AND AT MINIMUM, AT GRADE. REMOVE CONTAINER AND REMOVE ANY BURLAP 6 INCHES FROM THE HEIGHT OF THE ROOT BALL, THEN BACKFILL TO FINISHED GRADE USING EXCAVATED OR AMENDED SOIL FROM THE DUG HOLE.

SEED AREA ESTABLISHMENT

PREPARATION

SOIL PH IS TO BE TESTED PRIOR TO AMENDMENT AND FINAL GRADING. LIME OR SULFUR IS TO BE ADDED IN APPROPRIATE QUANTITY TO BRING PH TO ACCEPTABLE LEVELS FOR SEED APPLICATION AS NEEDED. IN AREAS OF SOIL AMENDMENT, SOIL IS RECOMMENDED TO BE MIXED, DISKED, CULTIVATED, AND ROLLED AS NEEDED. SOILS SHALL BE UNIFORM, WITHOUT EXCESSIVE FURROWS, RUTS, OR RIDGES, AND LOW AREAS WHERE WATER MAY COLLECT, SOIL PREPARATION SHALL OCCUR WHEN WEATHER PERMITS AND TIMING ALLOWS FOR AT LEAST A FOLLOWING 48 HOURS WHERE SEEDING AND STABILIZATION METHODS MAY TAKE PLACE.

TIMING

SEEDING SHALL BEGIN NO LATER THAN 48 HOURS AFTER FINAL SITE GRADING TO UTILIZE EXISTING SOIL MOISTURE BEFORE SURFACE DRYING OCCURS. ALL POST-GRADING SITE STABILIZATION METHODS SHALL BE APPLIED DURING THE 48 HOUR TIME PERIOD. IN ORDER TO MINIMIZE INITIAL USES OF BROAD APPLICATION HERBICIDE TREATMENT. AND PROMOTE EARLY AND STRONG ESTABLISHMENT OF SPECIFIED SEED MIXES WITH MINIMAL UNDESIRABLE WEED COMPETITION, DORMANT SEEDING SHOULD BE UTILIZED AS SITE CONDITIONS AND CONSTRUCTION TIMELINE PERMITS IF ACTIVE SEASON SEEDING SHOULD BE REQUIRED, IT IS RECOMMENDED TO DO SO BETWEEN APRIL 1ST AND MAY 30TH, AFTER RISK OF MAJOR FREEZING CONDITIONS IS MINIMIZED. COVER CROPS MAY BE SEEDED AT ANY TIME IN THE EVENT THAT STABILIZATION IS REQUIRED OUTSIDE OF RECOMMENDED PLANTING TIMES. COVER CROPS MAY BE REQUIRED TO BE IRRIGATED IF APPLIED DURING WARM SEASONS AND IF ADEQUATE SOIL MOISTURE IS NOT PRESENT.

APPLICATION

SEED MIXTURES SHALL BE MECHANICALLY DRILLED, BROADCAST, OR HYDROSEEDED WITH STRAW MULCH PER SUPPLIER'S RECOMMENDATION (IF APPLICABLE). NO STRAW MULCH IS REQUIRED IF DRILL APPLIED, UNLESS NEEDED FOR STEEP SLOPES, SOIL STABILIZATION, OR OTHER AREAS THAT ARE IDENTIFIED FOR EROSION PREVENTION. SEED SHALL BE APPLIED AT INDICATED RATES WITH COVER CROP OATS, JAPANESE MILLET, WINTER PEA, OR ANNUAL RYE DEPENDENT ON SEASON AND SOIL CONDITIONS, AT A RATE OF 30 LBS PER ACRE (UNLESS OTHERWISE STATED IN THE SPECIFIC SEED MIXTURE NOTES). SEED SPECIES SHALL BE LOCALLY SOURCED WHEN FEASIBLE. FINAL SEED MIX MAY VARY DEPENDENT UPON SPECIFIC SPECIES AVAILABILITY AND TIME OF INSTALLATION. FINAL SEED MIX SHALL BE APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR LANDSCAPE ARCHITECT. IF SEEDING IS DISTURBED BEFORE FINAL CONSTRUCTION, ADDITIONAL SEED MAY BE APPLIED BY A LOW SPREADER IN AREAS THAT WERE DISTURBED. SITE SHOULD BE MONITORED FOLLOWING INSTALLATION FOR AREAS IDENTIFIED FOR ADDITIONAL RESEEDING UNTIL SEED MIX IS SUFFICIENTLY ESTABLISHED.

INVASIVE WEED CONTROL, MONITORING, AND MANAGEMENT

AND A WORK PLAN SHOULD BE DEVELOPED TO AVOID THE SPREAD OF INVASIVE PLANTS FROM THESE AREAS. IF SUBSTANTIAL AREAS OF INVASIVE HERBACEOUS SPECIES ARE FOUND PRIOR TO OR AFTER PROJECT DEVELOPMENT. FOLIAR OR BROADCAST HERBICIDE APPLICATIONS MAY BE REQUIRED. FOR INVASIVE TREES, SHRUBS, AND VINES, MANAGEMENT MAY REQUIRE CUT-STEM HERBICIDE TREATMENTS.

ALL INVASIVE SPECIES MANAGEMENT SHOULD BE CONDUCTED DURING THE SUMMER MONTHS WHILE THE TARGET PLANTS ARE ACTIVELY GROWING.

TREATMENTS SHOULD BE CONDUCTED BETWEEN JULY AND AUGUST OF EACH YEAR AND SHOULD BE SEPARATED BY AT LEAST TWO WEEKS. APPROXIMATELY TWO HERBICIDE TREATMENTS SHOULD BE SCHEDULED PER SEASON FOR AT LEAST TWO YEARS FOLLOWING INITIATION OF PROJECT WORK. HERBICIDE USE REPORTING WILL ADHERE TO ALL APPLICATOR LICENSING REQUIREMENTS.

MAINTENANCE AND PERFORMANCE STANDARDS

LANDSCAPE NOTES

- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MATERIALS AND PLANTS SHOWN ON THE LANDSCAPE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT LANDSCAPE, PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION OR DURING THE SPECIFIED MAINTENANCE PERIOD CALL FOR UTILITY LOCATIONS PRIOR TO ANY EXCAVATION.
- 2. THE CONTRACTOR SHALL REPORT ANY DISCREPANCY IN PLAN VS. FIELD CONDITIONS IMMEDIATELY TO THE LANDSCAPE ARCHITECT, PRIOR TO CONTINUING WITH THAT PORTION OF WORK.
- 3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS
- THAT SETTLE. ALL PLANTS TO BE SPECIMEN GRADE, WELL BRANCHED, HEALTHY, FULL, PRE-INOCULATED AND FERTILIZED. PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, AND SCARS. PLANTS SHALL BE FREE FROM
- TRUNKS WILL BE WRAPPED IF NECESSARY TO PREVENT SUN SCALD AND INSECT DAMAGE. THE LANDSCAPE CONTRACTOR SHALL REMOVE THE WRAP AT THE PROPER TIME AS PART OF THIS CONTRACT. 6. THE OWNER'S REPRESENTATIVE MAY REJECT ANY PLANT MATERIALS THAT ARE DISEASED, DEFORMED, OR

NOTICEABLE GAPS, HOLES, OR DEFORMITIES. PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.

- OTHERWISE NOT EXHIBITING SUPERIOR QUALITY. ALL NURSERY STOCK SHALL BE GUARANTEED, BY THE CONTRACTOR, FOR ONE YEAR FROM DATE OF FINAL INSPECTION. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNERS WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
- PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
- 9. PRUNE PLANTS AS NECESSARY- PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING

- OF EXISTING AND PROPOSED TREES.
- 10. PLANTING AREA TOPSOIL SHALL BE AMENDED WITH 25% SPHAGNUM PEATMOSS, 5% HUMUS AND 70% PULVERIZED SOIL FOR ALL NON TURF SEED MIX AREAS, SHRUB, ORNAMENTAL GRASS, PERENNIAL BEDS.
- 11. SEED LIMIT LINES ARE APPROXIMATE. CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED MIXES.
- 12. EDGING TO BE A SPADED EDGE UNLESS INDICATED OTHERWISE ON THE PLANS. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. A SPADED BED EDGE SHALL SEPARATE MULCH BEDS FROM TURF OR SEEDED AREAS. A SPADED EDGE IS NOT REQUIRED ALONG
- CURBED EDGES. 13. CONTRACTOR SHALL INSTALL SHREDDED HARDWOOD MULCH AT A 3" DEPTH TO ALL TREES, SHRUB, PERENNIAL, AND GROUNDCOVER AREAS. TREES PLACED IN AREA COVERED BY TURF SHALL RECEIVE A 4 FT
- WIDE MAXIMUM TREE RING WITH 3" DEPTH SHREDDED HARDWOOD MULCH. 14. TREES SHALL NOT BE LOCATED CLOSER THAN 5' FROM UNDERGROUND UTILITY LINES AND NO CLOSER THAN
- 10' FROM UTILITY STRUCTURES. 15. DO NOT DISTURB THE EXISTING PAVING, LIGHTING, OR LANDSCAPING THAT EXISTS ADJACENT TO THE SITE
- UNLESS OTHERWISE NOTED ON PLAN. 16. ALL DISTURBED AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED. SEED SHALL BE LOCAL HARDY TURF GRASS MIX UNLESS, OTHERWISE NOTED.
- 17. PLANT QUANTITIES SHOWN ARE FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL REVIEW AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES AS DRAWN.
- 18. THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY ON WHICH SAID MATERIALS ARE REQUIRED. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED IF THE PLANT MATERIAL HAS DIED PRIOR TO FINAL ACCEPTANCE. PLANTING AREAS SHALL BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.

NATURAL AREA NOTES

- 1. ALL WORK DEEMED NATURAL AREA TO BE SEEDED OR PLANTED SHALL BE PERFORMED BY A NATURALS AREA CONTRACTOR WITH AT LEAST 5 YEARS OF DOCUMENTED EXPERIENCE IN SELECTIVE BRUSH CLEARING, PLANTING OF NATIVE SPECIES, AND NATURAL AREAS MANAGEMENT FOR THE PURPOSE OF ECOLOGICAL RESTORATION, AND SHALL BE ABLE TO DEMONSTRATE THERE KNOWLEDGE THROUGH REFERENCES AND IN THE FIELD.
- SEED LIMIT LINES ARE APPROXIMATE. THE NATURAL AREAS CONTRACTOR SHALL SEED ALL AREAS WHICH ARE DISTURBED BY GRADING WITH THE SPECIFIED SEED/PLUG MIXES.
- SEED, LIVE PLUGS, OR BARE ROOT PLANTS SHALL BE OBTAINED FROM SOURCES SPECIALIZING IN NATIVE SPECIES. SEED AND PLANT STOCK SHALL BE SOURCED NO MORE THAN 350 MILES FROM THE JOB SITE.
- 4. ALL SEED MIXES SHALL BE INSTALLED WITH A GRANULAR FORM OF ENDOMYCORRHIZAL INOCULUM PER THE SUPPLIERS SPECIFICATIONS. COVER CROP IS TO BE APPLIED TO ALL SEED MIXES CONSISTING ONLY OF AVENA SATIVA (SEED OATS) FOR SPRING INSTALLATIONS OR REGREEN (WHEAT HYBRID) FOR FALL PLANTINGS. NO OTHER COVER CROP IS TO BE USED ON
- 5. STANDARD EROSION CONTROL BLANKET SHALL BE APPLIED TO ALL SEEDED AREAS WITH SINGLE TO DOUBLE NET STRAW AND DOUBLE NET STRAW/COCONUT BLANKET HYDROSEEDING IS
- 6. LIVE PLUG AND BARE ROOT INSTALLATION SHALL BE ACCOMPANIED BY GOOSE EXCLOSURE FOR UP TO 12 MONTHS AFTER INSTALLATION. NATURAL AREAS CONTRACTOR TO REMOVE AT OWN EXPENSE AFTER 12 MONTHS.
- 7. STEWARDSHIP OF THE NATURAL AREA SHALL BE CONDUCTED BY A NATURAL AREAS CONTRACTOR TO BEGIN IMMEDIATELY AFTER INSTALLATION FOR THREE YEARS.

NTS

NATURAL AREA NOTES

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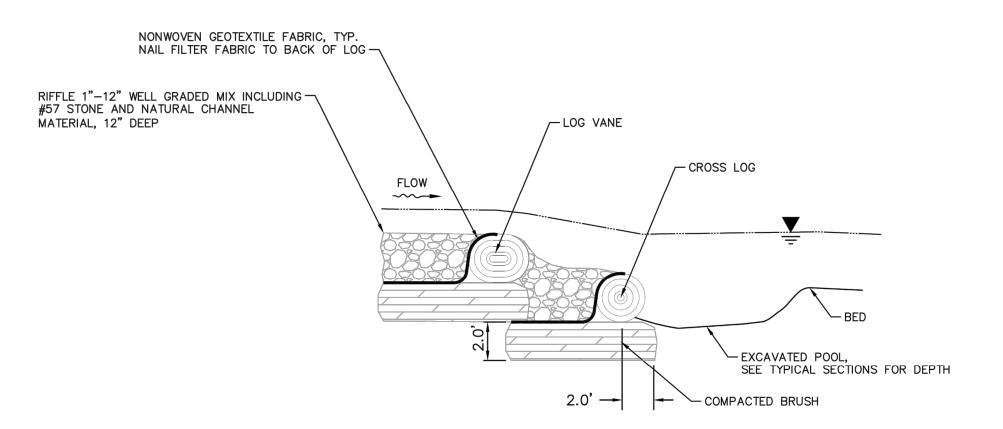
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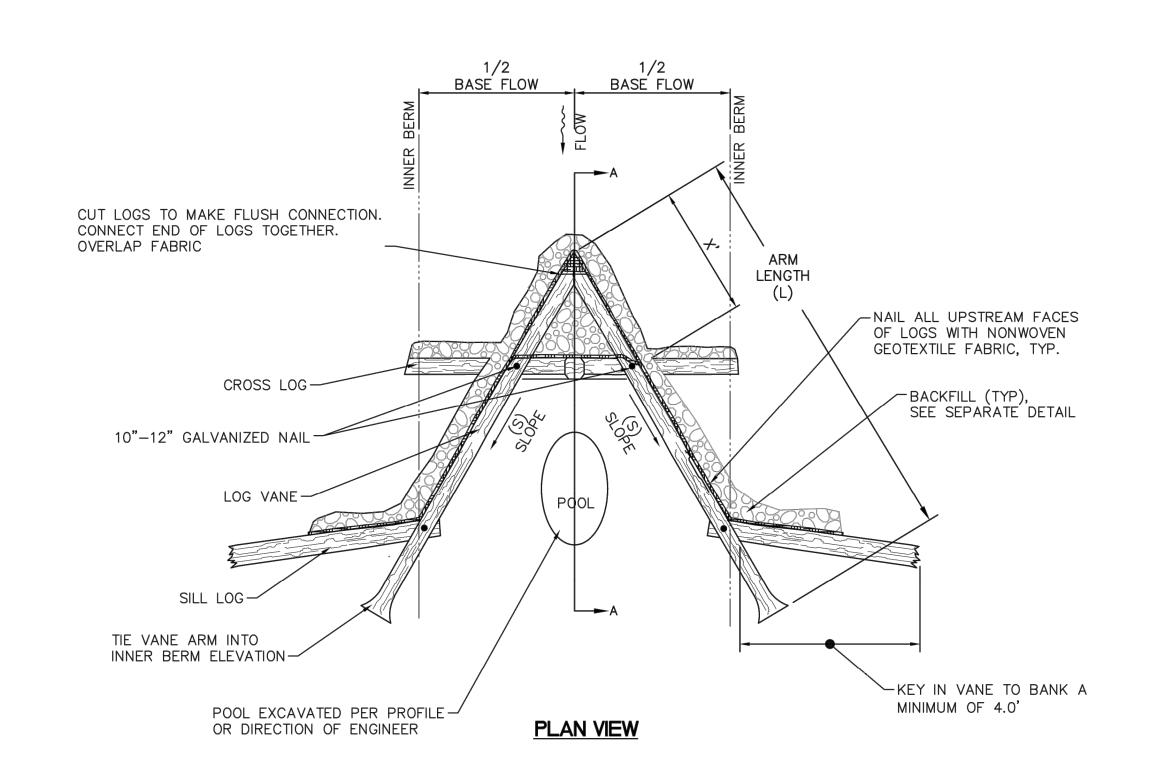
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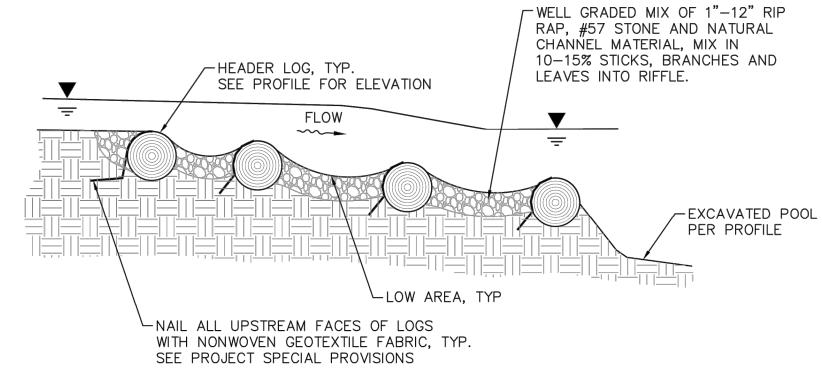


SECTION A-A

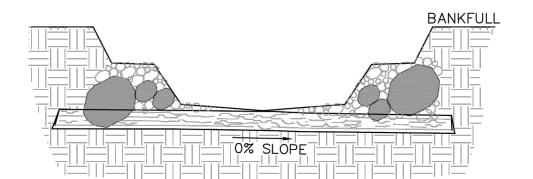
REACH	WBRR TRIE
ARM LENGTH (L)	15'
ARM TIE-IN HEIGHT	0.3'
ARM SLOPE (S)	1.0%-2.0%
STEP SPACING (X)	5'

DEEPEST PART OF POOL TO BE IN LINE WITH WHERE VANE ARM TIES INTO THE BANK. BACKFILL MIX TO BE USED TO REDUCE VOIDS BETWEEN LOGS.
ALL LOGS TO BE HARDWOOD SPECIES, 8"-10" DIAMETER MINIMUM.





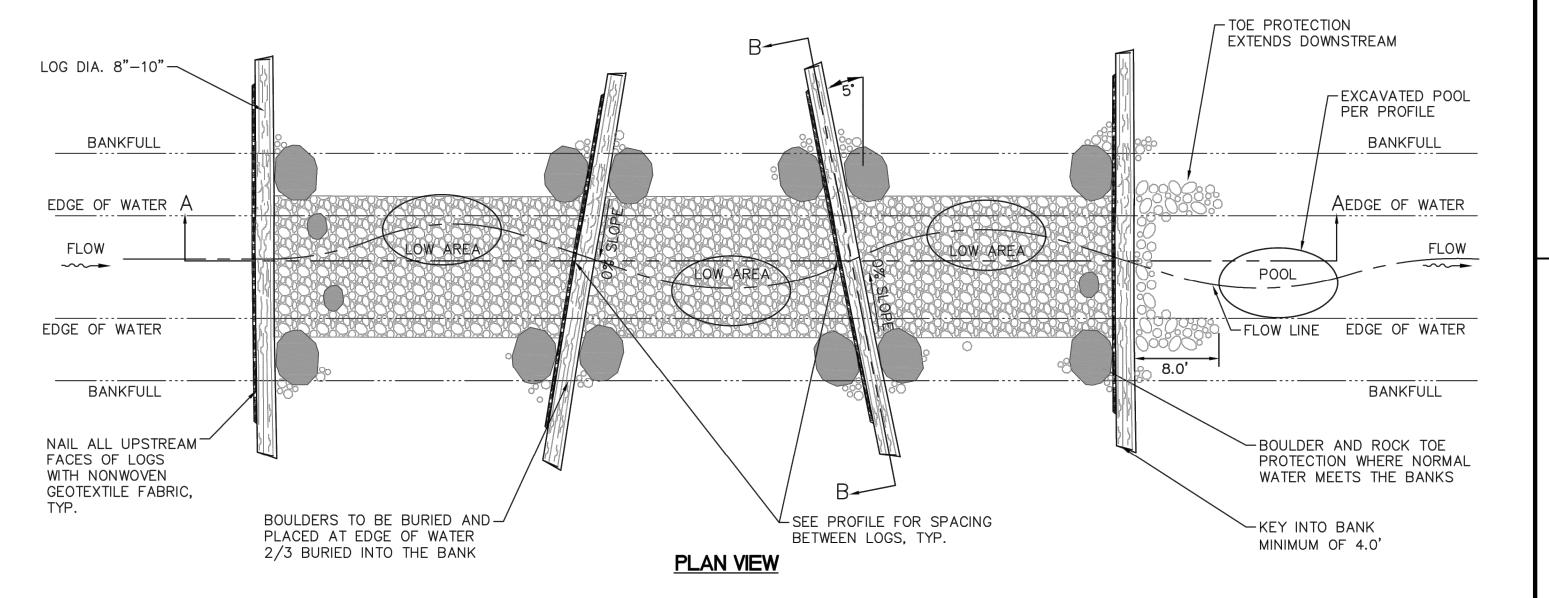
SECTION A-A



SECTION B-B

- 1. PLACE FABRIC ON THE UPSTREAM SIDE OF THE MOST UPSTREAM LOG SILL IN THE CONSTRUCTED RIFFLE.
- BOULDERS SHALL BE USED TO ANCHOR LOGS IF NEEDED.
 LOG SILLS SHALL OVERLAP AND ANCHOR THE LOG SILL DIRECTLY
- UPSTREAM. 4. THE LOG SILL SHALL ALL BE DESIGNED TO BE SUBMERGED OR COVERED AT LOW FLOWS.

 5. BOULDERS SHALL BE 18" MIN.
- 6. AFTER ENGINEER HAS ACCEPTED STRUCTURE, THE NONWOVEN GEOTEXTILE FABRIC SHOULD BE TRIMMED TO MINIMIZE THE AMOUNT VISIBLE ON TOP OF LOG.



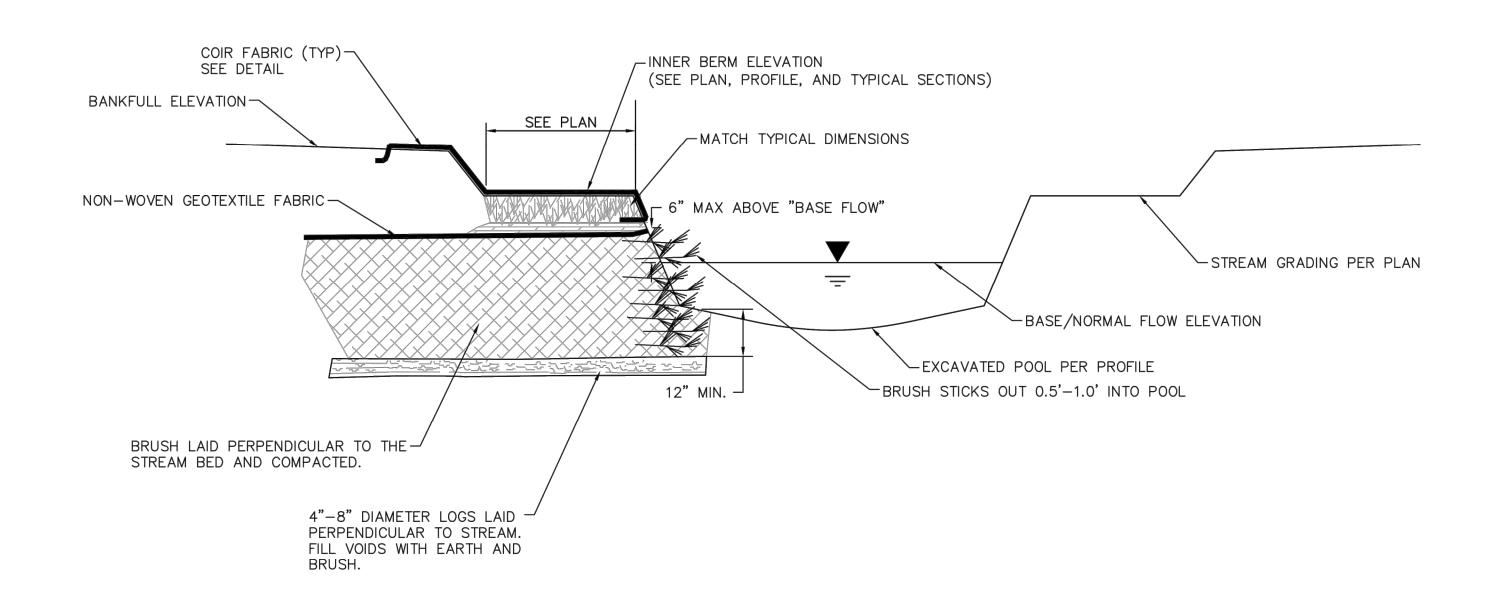
LOG CROSS VANE **NOT TO SCALE**

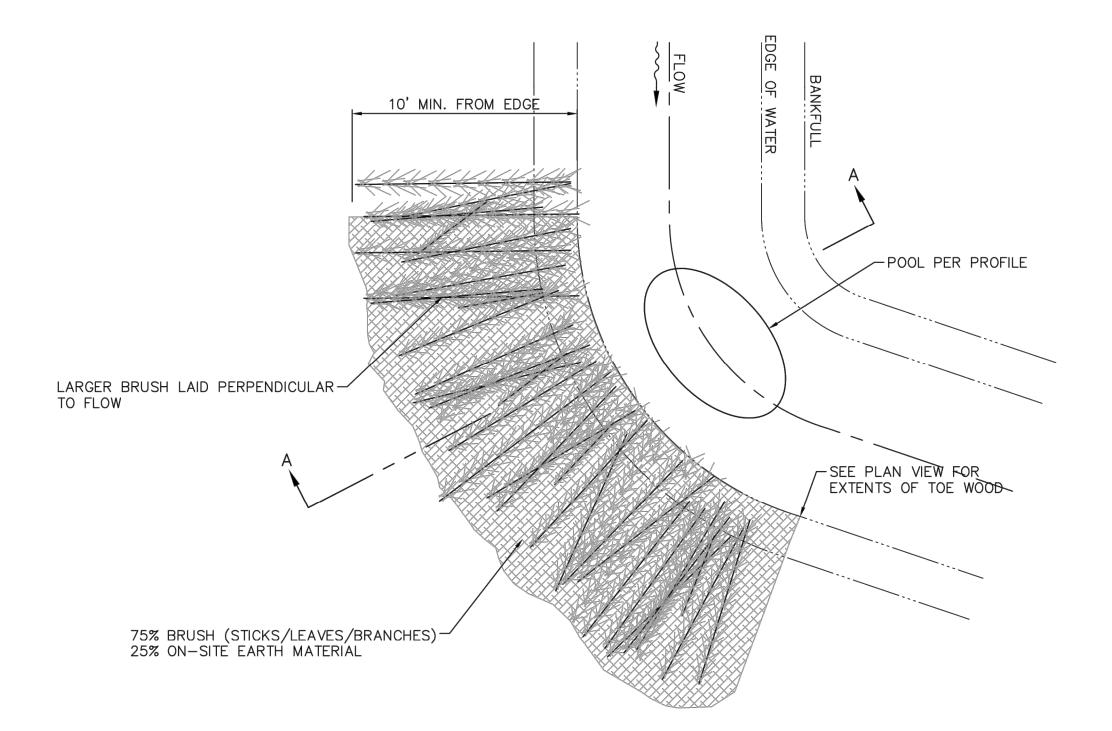
LOG AND ROCK RIFFLE

NOT TO SCALE

Kimley » Horn S DETAIL REFORESTATION PLANS
BUCKEYE YARD

PROBUS, FRANKLIN COUNT ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO. 190118000 SHEET NUMBER EC6.0



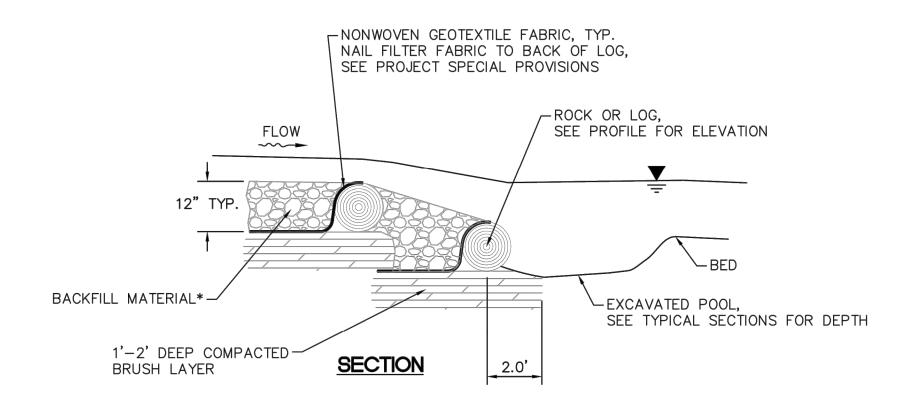


- 1. BRUSH SHALL BE A VARIETY OF DIAMETERS AND SHALL BE LAID GENERALLY PERPENDICULAR TO FLOW AND COMPACTED BY DIRT.
- 2. FIRST LAYER OF BRUSH SHALL BE A BED OF 3"
 LIMBS/BRUSH SET 18" MIN. BELOW THE BED.

 3. LAYERS ABOVE 1st LAYER SHALL BE 75% BRUSH OF A
 VARIETY OF SIZES WITH 25% ON SITE MATERIAL FILLING
- 4. BRUSH BROUGHT UP IN LIFTS.5. GRADING ABOVE THE TOE WOOD PER THE TYPICAL SECTION AND/OR GRADING PLAN.

PLAN VIEW

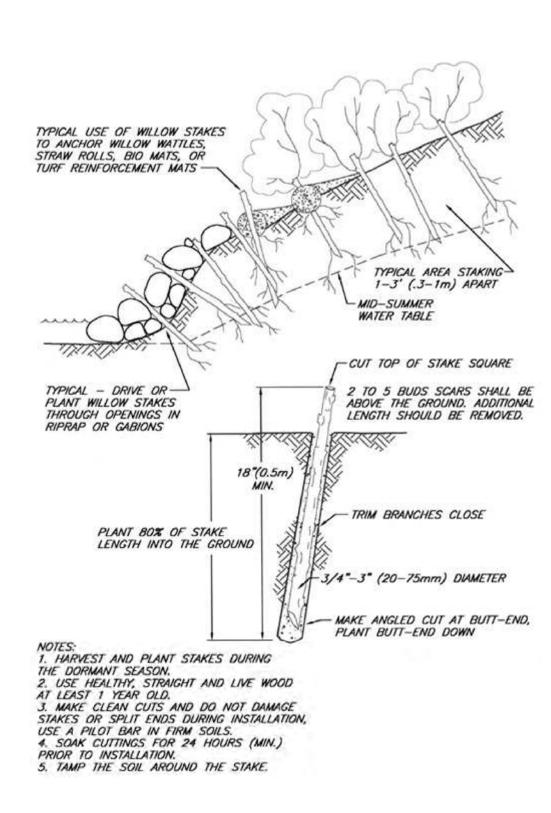
TOE WOOD NOT TO SCALE



*BACKFILL MATERIAL (WELL GRADED MIX)				
1"-12" RIP RAP	75%			
ON-SITE COBBLE AND GRAVEL	10%			
#57 STONE	10%			
MULCH (FROM ON-SITE)	5%			
% IS MEASURED BY VOLUME				

*BRUSH LAYER TO BE LAID PERPENDICULAR TO FLOW

LOG STRUCTURE BACKFILL DETAIL **NOT TO SCALE**



LIVE STAKING **NOT TO SCALE**

Kimley » Horn

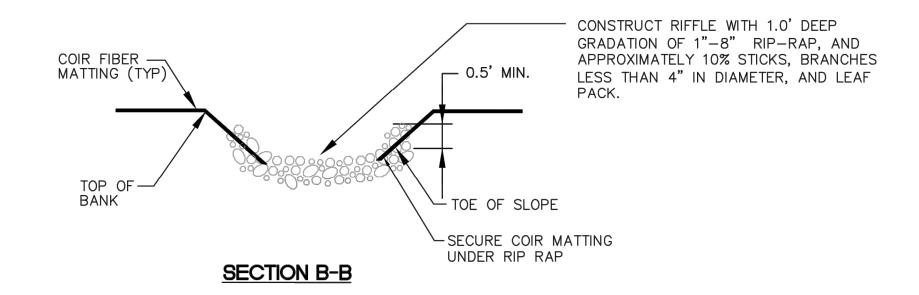
S DETAIL

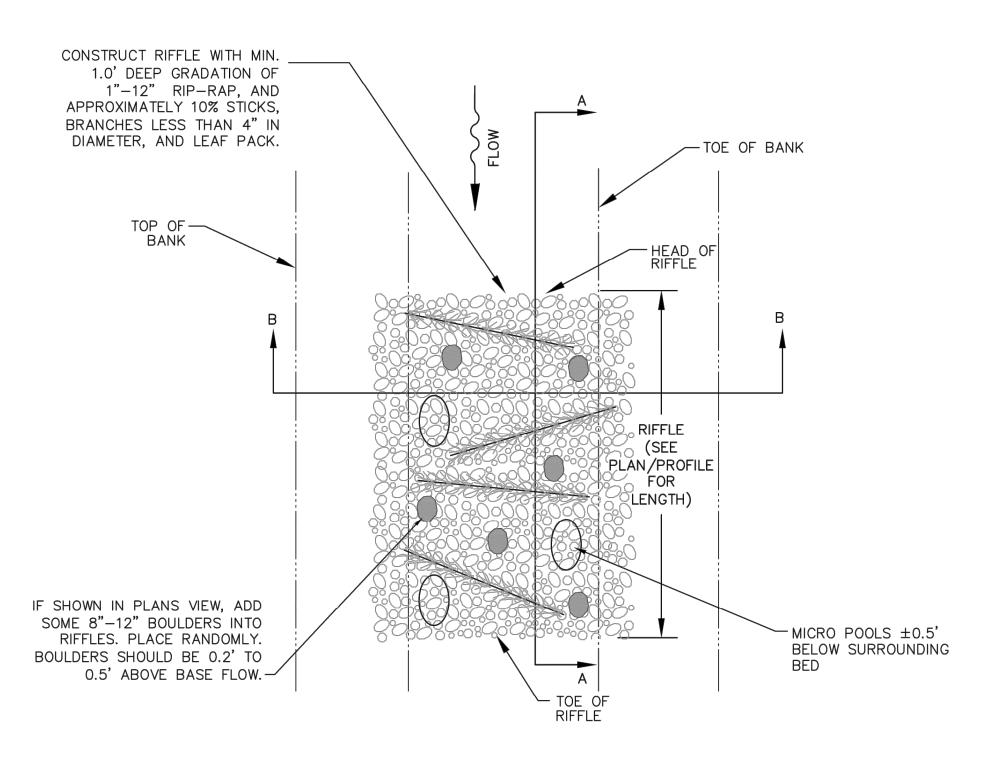
ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO.

190118000 SHEET NUMBER

EC6.1

HEAD OF—— RIFFLE - SEE PLANS FOR ELEVATION - TOE OF RIFFLE POOL SEE PLAN EXTEND RIP-RAP AND PROFILE 5' MIN UPSTREAM INTO GLIDE -EXTEND RIFFLE 10' SECTION A-A MIN INTO RUN





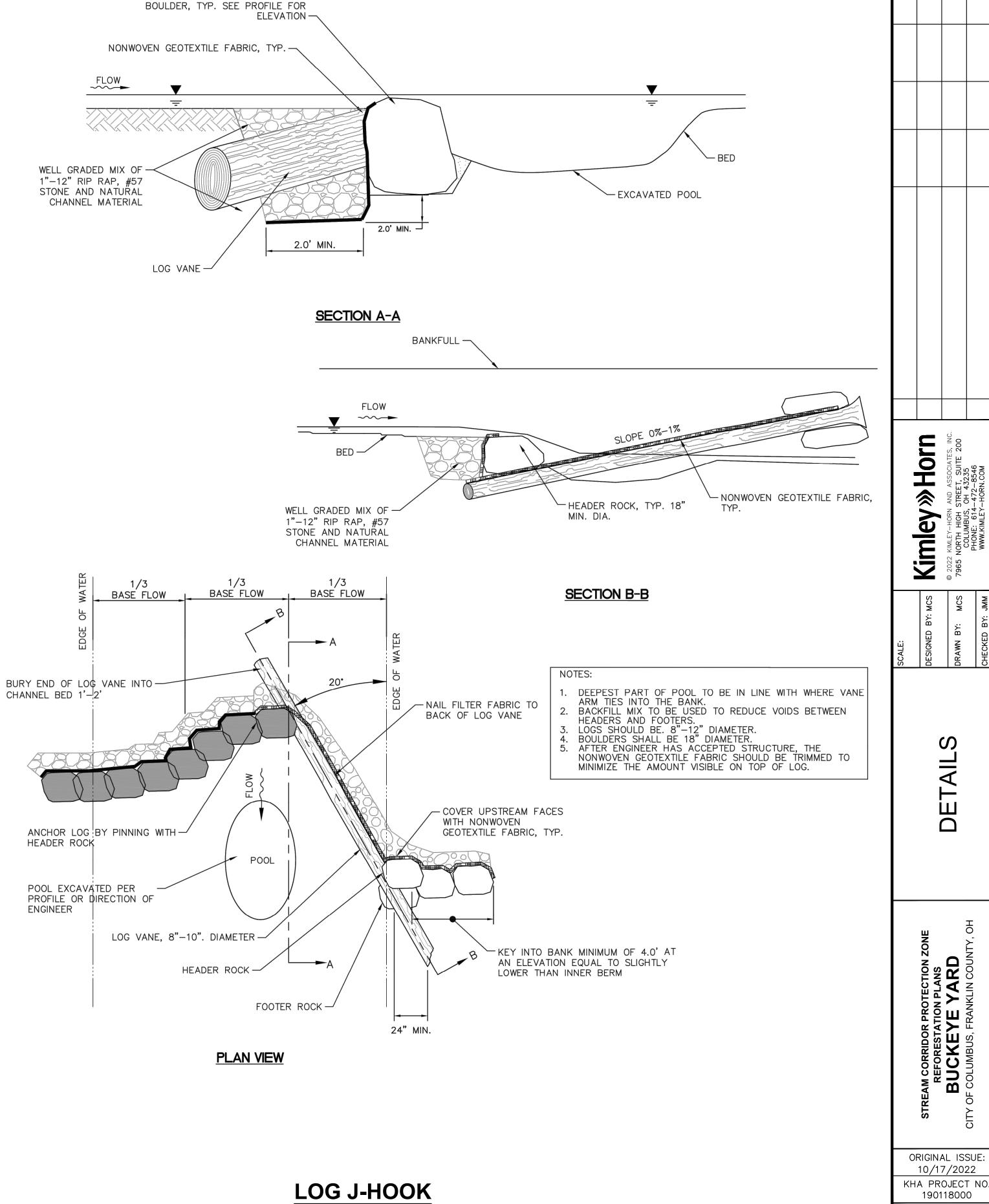
PLAN VIEW

NOTES:

MAJORITY OF BRUSH SHOULD BE AT 0.5"-2.0" IN DIAMETER AND NO LARGER THAN 6" AND EXTEND INTO THE BANK 2 FEET ON EACH SIDE. WOOD MATERIAL SHALL BE VARYING DIAMETER TO ALLOW MATERIAL TO BE COMPACTED.

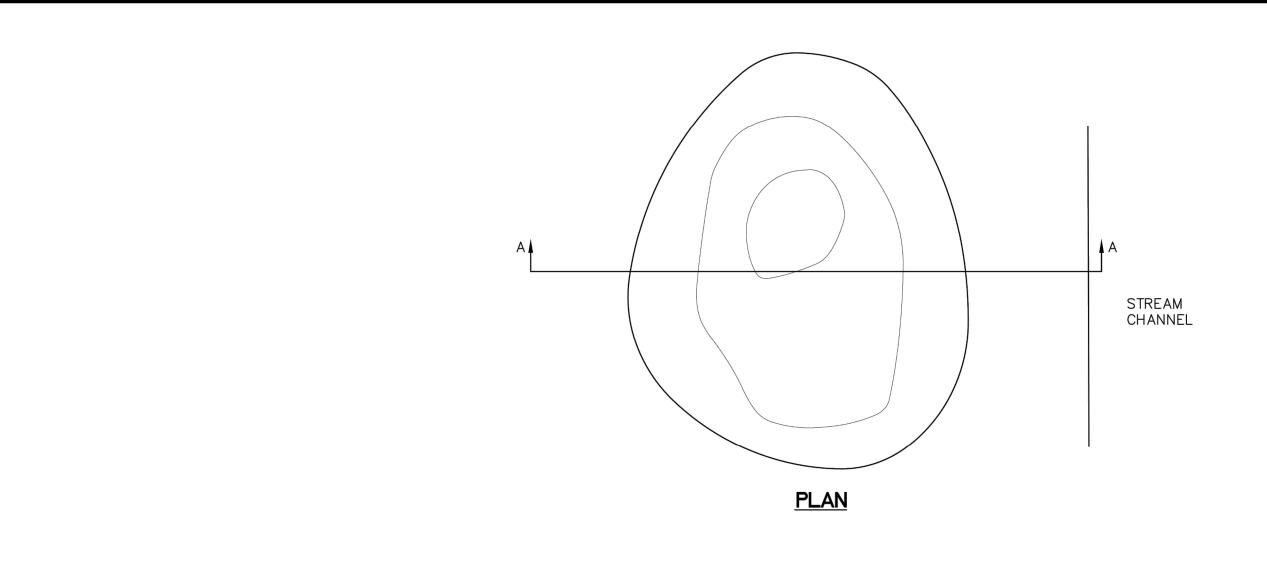
CONSTRUCTED RIFFLE NOT TO SCALE

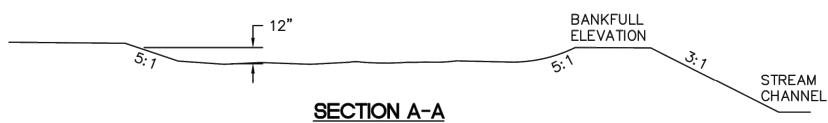
LOG J-HOOK NOT TO SCALE



SHEET NUMBER

EC6.2





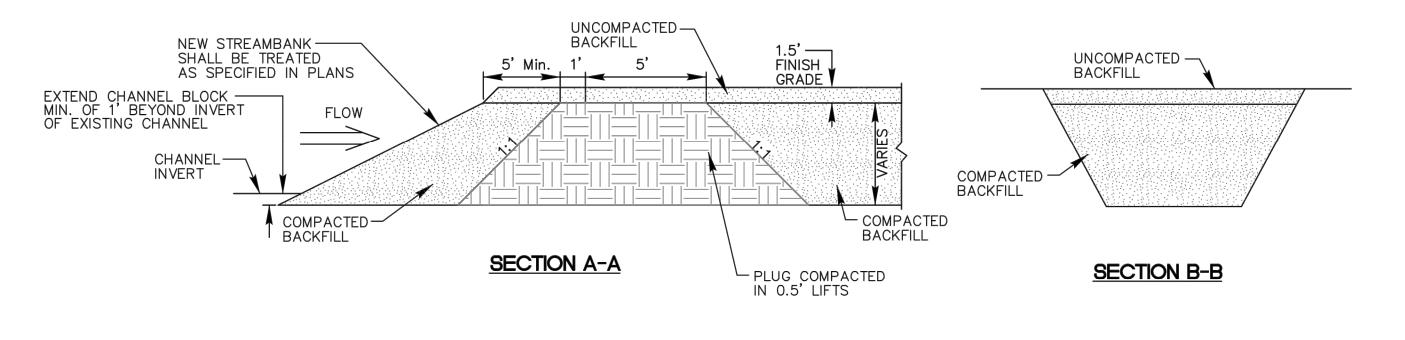
TREE PLANTING DETAIL

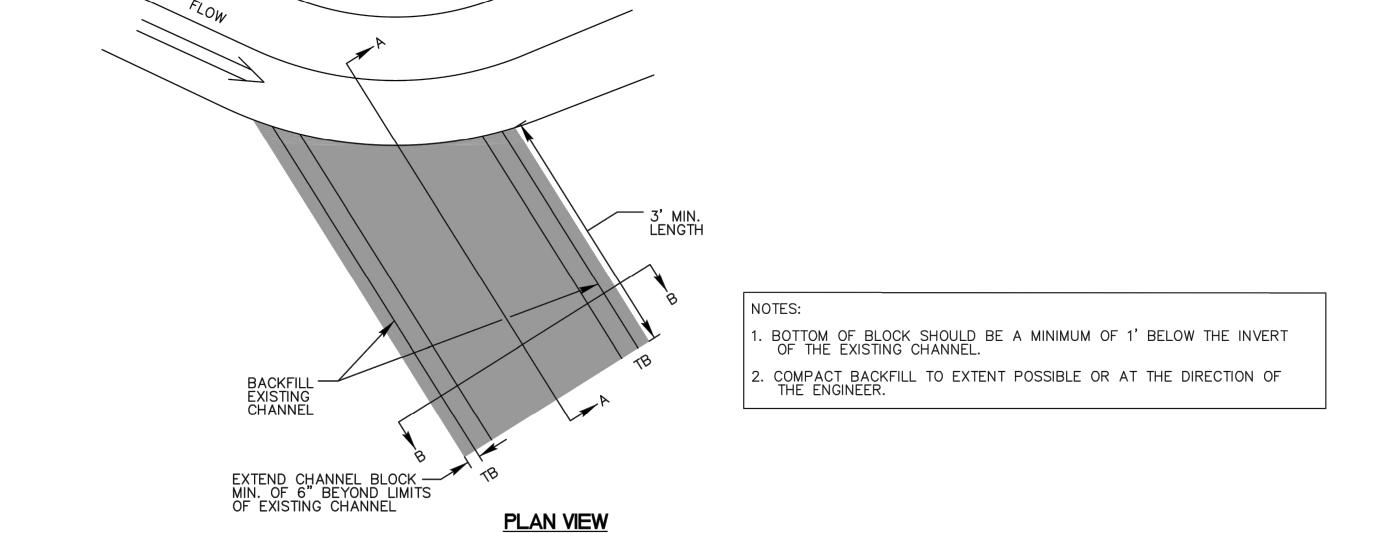
NOT TO SCALE

NOTE: FOR SIZE AND SHAPE SEE PLAN VIEWS.

VERNAL POOL DETAIL

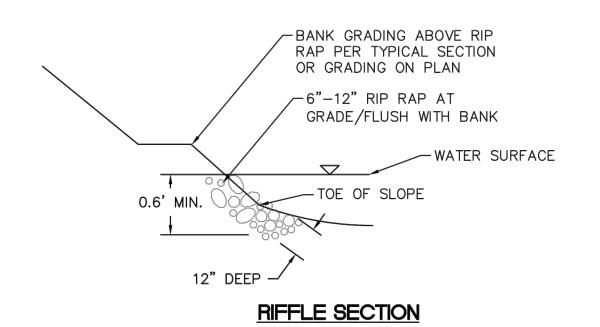
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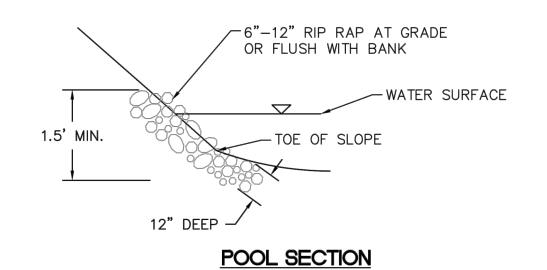




CHANNEL BLOCK

NOT TO SCALE





ROCK TOE PROTECTION

NOT TO SCALE

	4'-6"	12 ° \omega \ome
(B) (22)	(3A)	3" -

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

 6. PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
- 1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.
 PERVIOUS LAND WITH SLOPES RUNNING GREATER THAN OR EQUAL TO 4:1 SHALL CONTAIN SLOPE STABILIZATION
- 4. ALL BLANKETS SHALL BE INSPECTED REGULARLY AFTER INSTALLATION, ESPECIALLY AFTER STORMS TO CHECK FOR EROSION OR UNDERMINING OF THE PRODUCT. MAKE NEEDED REPAIRS IMMEDIATELY, ADDRESSING RILLS OR GULLIES THAT HAVE DEVELOPED PRIOR TO REPLACING THE R.E.C.P.. IN THE CASE EROSION REPAIRS, ASSURE THAT SUBSEQUENT RUNOFF ACROSS THE AREA IS DISPERSED OR ADEQUATELY SPREAD
- 5. ALL BLANKETS SHALL MEET THE SPECIFICATIONS BELOW:

MATERIAL	MAXIMUM LENGTH OF PROTECTION
SRAW	10-12 MONTHS
STRAW/COCONUT	24 MONTHS
COCONUT	36 MONTHS
EXCELSIOR	36 MONTHS

EROSION CONTROL BLANKET NOT TO SCALE

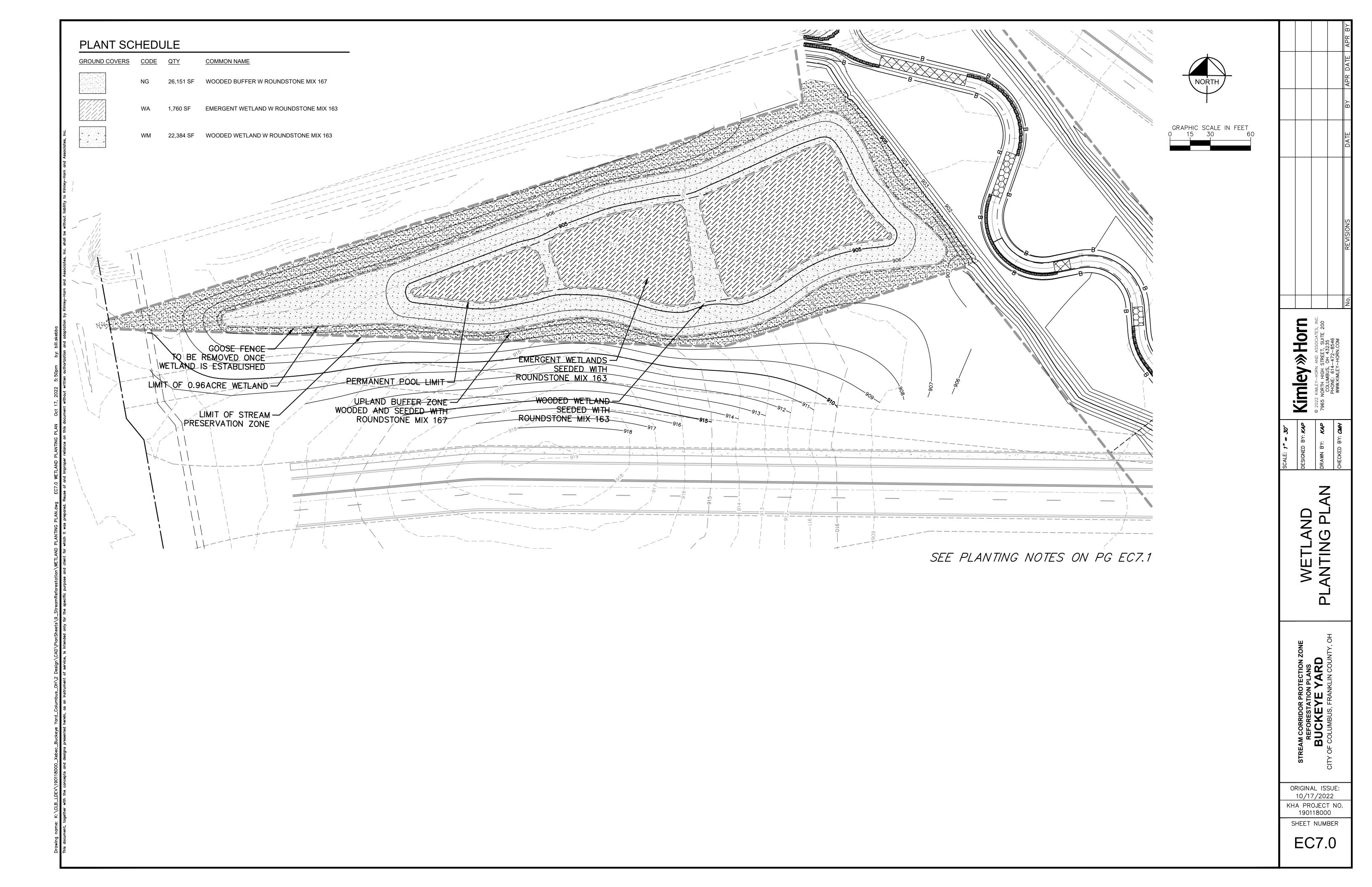
Kimley » Horn DETAIL

10/17/2022 KHA PROJECT NO. 190118000

ORIGINAL ISSUE:

SHEET NUMBER

EC6.3



WETLAND PLANTING NOTES

A MINIMUM OF 400 NATIVE, LIVE, AND HEALTHY (DISEASE AND PEST FREE) WOODY PLANTS PER ACRE WITHIN THE WOODED WETLAND PORTION (OF WHICH AT LEAST 200 ARE TREE SPECIES) WILL BE PRESENT AT THE END OF THE MONITORING PERIOD.

A MINIMUM OF 400 NATIVE, LIVE, AND HEALTHY (DISEASE AND PEST FREE) WOODY PLANTS PER ACRE WITHIN THE UPLAND BUFFER (OF WHICH AT LEAST 200 ARE TREE SPECIES) WILL BE PRESENT AT THE END OF THE MONITORING PERIOD.

THE MITIGATION WETLAND MUST CONTAIN AT LEAST 75% RELATIVE COVER OF NATIVE PERENNIAL HYDROPHYTES AND LESS THAN 10% OPEN WATER.

MITIGATION WETLAND WILL HAVE LESS THAN 5% RELATIVE COVER OF ALL NON-TYPHA INVASIVE PLANT SPECIES LISTED IN APPENDIX 7 OF THE GUIDELINES FOR MITIGATION BANKING IN OHIO. DUE TO THE DIFFICULTY OF DISTINGUISHING THE THREE SPECIES OF CATTAILS, AS WELL AS THE LIKELIHOOD THAT AT LEAST ONE OF THESE WILL BE PRESENT IN MANY TYPES OF OHIO WETLANDS, THE RELATIVE COVER OF ALL INVASIVE SPECIES. INCLUDING TYPHA SPP., WILL BE LESS THAN 10%.

MITIGATION WETLAND WILL BE SEEDED TO BE 50 HERBACEOUS PLANTS PER 200 SQUARE FEET.

INSTALLATION OF HERBACEOUS PLANTS SHALL BE DONE BETWEEN AVERAGE LAST FROST (APRIL 29TH) AND SEVERAL WEEKS BEFORE AVERAGE FIRST FROST (OCTOBER 27TH).

ALL LANDSCAPE REINFORCEMENT PLANS SHALL BE SIGNED BY A REGISTERED LANDSCAPE ARCHITECT WITH DIRECTION PROVIDED BY AN EXPERIENCED WETLAND SCIENTIST.

IF A MINIMUM VEGETATIVE COVERAGE OF 50% IS NOT ACHIEVED IN THE PLANTED WETLAND ZONES AFTER THE SECOND GROWING SEASON, A REINFORCEMENT PLANTING WILL BE REQUIRED.

REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.

WEEDING, LANDSCAPE MAINTENANCE, AND WATERING TO BE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION. ALL PLANT MATERIALS REQUIRED BY THIS SECTION SHALL BE MAINTAINED AS LIVING VEGETATION AND SHALL BE PROMPTLY REPLACED BY CONTRACTOR DURING WARRANTY PERIOD IF PLANT MATERIAL DIES BEFORE ACCEPTANCE.

PLANTING AREAS TO BE KEPT FREE OF TRASH, LITTER, AND WEEDS AT ALL TIMES.

THE CONTINUED MAINTENANCE OF ALL REQUIRED LANDSCAPING AFTER THE WARRANTY PERIOD OR MONITORING PERIOD (WHICHEVER IS GREATER) EXPIRES SHALL THE RESPONSIBILITY OF THE OWNER.

ALL PLANTS TO BE SPECIMEN GRADE, OHIO-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:

ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.

ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.

ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES. ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.

THE OWNERS REPRESENTATIVE MAY REJECT PLANT MATERIALS NOT EXHIBITING SUPERIOR QUALITY.

NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.

GOOSE FENCE WILL BE INSTALLED BEFORE PLANTING TO BE REMOVED ONCE WETLAND IS ESTABLISHED. FENCE SHOULD BE CHECKED OCCASIONALLY TO ENSURE INTEGRITY AND CHECK FOR TRAPPED WILDLIFE.

	MIT	IGATION WETLAND	SPECIES TAB	BLE		
COMMON NAME	SCIENTIFIC NAME	QUANTITY	CONTAINE	R SICONTAINER	T'PLANTING WIN	ACREAGE
	WETLAND SEED MIX ROUN	DSTONE MIX 163	8.75 PLS p	ounds/acre		0.82 ACRES
VIRGINIA WILD RYE	ELYMUS VIRGINICUS		N/A	SEED MIX	4/29 - 9/27	
AMERICAN MANNA	GLYCERIA GRANDIS		N/A	SEED MIX	4/29 - 9/27	
BARNYARD GRASS	ECHINOCHLOA MURICATA		N/A	SEED MIX	4/29 - 9/27	
RED TOP PANICUM	PANICUM RIGIDULUM		N/A	SEED MIX	4/29 - 9/27	
HOP SEDGE	CAREX LUPULINA.		N/A	SEED MIX	4/29 - 9/27	
SHALLOW SEDGE	CAREX LURIDA		N/A	SEED MIX	4/29 - 9/27	
FOX SEDGE	CAREX VULPINOIDEA		N/A	SEED MIX	4/29 - 9/27	
NODDING SEDGE	CAREX CRINITA		N/A	SEED MIX	4/29 - 9/27	
MANY LEAVED BUL	SCIRPUS POLYPHYLLUS		N/A	SEED MIX	4/29 - 9/27	
PENNSYLVANIA SM	POLYGONUM PENSYLVANICUM		N/A	SEED MIX	4/29 - 9/27	
BUTTON BUSH	CEPHALANTHUS OCCIDENTALIS		N/A	SEED MIX	4/29 - 9/27	
OHIO SPIDERWORT	TRADESCANTIA OHIENSIS		N/A	SEED MIX	4/29 - 9/27	
FALSE SUNFLOWER	HELIOPSIS HELIANTHOIDES		N/A	SEED MIX	4/29 - 9/27	
SAWTOOTH SUNFLO	HELIANTHUS GROSSESERRATUS		N/A	SEED MIX	4/29 - 9/27	
AMERICAN SENNA	SENNA HEBECARPA		N/A	SEED MIX	4/29 - 9/27	
CUP PLANT	SILPHIUM PERFOLIATUM		NZA	SEED MIX	4/29 - 9/27	
SHOWY TICKSEED	BIDENS ARISTOSA		N/A	SEED MIX	4/29 - 9/27	
SWAMP MILKWEED	ASCLEPIAS INCARNATA		N/A	SEED MIX	4/29 - 9/27	
SNEEZEWEED	HELENIUM AUTUMNALE		N/A	SEED MIX	4/29 - 9/27	
GIANT BUR REED	SPARGANIUM EURYCARPUM		N/A	SEED MIX	4/29 - 9/27	
	NATIVE SEED MIX ROUND	STONE MIX 167 -	9.75 PLS po	unds/acre		0,6 ACRES
FOWL BLUEGRASS	POA PALUSTRIS		N/A	SEED MIX	4/29 = 9/27	
TICKLE GRASS	AGROSTIS SCABRA		N/A	SEED MIX	4/29 9/27	
CANADA WILD RYE	ELYMUS CANADENSIS		N/A	SEED MIX.	4/29 - 9/27	
BARNYARD GRASS	ECHINOCHLOA MURICATA		N/A	SEED MIX	4/29 - 9/27	
BIG BLUESTEM	ANDROPOGON GERARDII		N/A	SEED MIX	4/29 - 9/27	
DEER TONGUE GRA	PANICUM CLANDESTINUM		N/A	SEED MIX	4/29 - 9/27	
FALL PANICUM	PANICUM ANCEPS		N/A	SEED MIX	4/29 - 9/27	
SWITCHGRASS	PANICUM VIRGATUM		N/A	SEED MIX	4/29 - 9/27	
OHIO SPIDERWORT	TRADESCANTIA OHIENSIS		N/A	SEED MIX	4/29 - 9/27	
AMERICAN SENNA	SENNA HEBECARPA		N/A	SEED MIX	4/29 - 9/27	
WHITE SNAKEROOT	EUPATORIUM RUGOSUM		N/A	SEED MIX	4/29 - 9/27	
LANCE-LEAVED GO	EUTHAMIA GRAMINIFOLIA		N/A	SEED MIX	4/29 - 9/27	
FALSE SUNFLOWER	HELIOPSIS HELIANTHOIDES		N/A	SEED MIX	4/29 - 9/27	
CUP PLANT	SILPHIUM PERFOLIATUM		N/A	SEED MIX	4/29 - 9/27	
SWAMP MILKWEED	ASCLEPIAS INCARNATA		N/A	SEED MIX	4/29 - 9/27	
SHOWY TICKSEED	BIDENS ARISTOSA		N/A	SEED MIX	4/29 - 9/27	
SNEEZEWEED	HELENIUM AUTUMNALE		N/A	SEED MIX	4/29 - 9/27	
YELLOW WINGSTEM	VERBESINA ALTERNIFOLIA		N/A	SEED MIX	4/29 - 9/27	
NEW YORK IRONWE	VERNONIA NOVEBORACENSIS		N/A	SEED MIX	4/29 - 9/27	
NEW ENGLAND AST	ASTER NOVAE-ANGLIAE		N/A	SEED MIX	4/29 - 9/27	
		WOODED AREA				1.11 ACRES
RIVER BIRCH	BETULA NIGRA	40	6' WHIP	BARE ROOT	4/29 - 9/27	
AMERICAN SYCAMO	PLATANUS OCCIDENTALIS	38	6' WHIP	BARE ROOT	4/29 - 9/27	
SWAMP WHITE OAK	QUERCUS BICOLOR	42	6' WHIP	BARE ROOT	4/29 - 9/27	
PIN OAK	QUERCUS PALUSTRIS	41	6' WHIP	BARE ROOT	4/29 - 9/27	
BLACK WILLOW	SALIX NIGRA	39	6' WHIP	BARE ROOT	4/29 - 9/27	
RED MAPLE	ACER RUBRUM	38	6' WHIP	BARE ROOT	4/29 - 9/27	
STAGHORN SUMAC	RHUS TYPHINA	41	12"	BARE ROOT	4/29 - 9/27	
BLACK-HAW	VIBURNUM PRUNIFOLIUM	38	12"	BARE ROOT	4/29 - 9/27	
PANICLED DOGWOO	CORNUS RACEMOSA	42	12"	BARE ROOT	4/29 - 9/27	
BLACK CHOKEBER	ARONIA MELANOCARPA	39	12"	BARE ROOT	4/29 - 9/27	
COMMON ELDERBE	SAMBUCUS CANADENSIS	41	12"	BARE ROOT	4/29 - 9/27	
BUTTONBUSH	CEPHALANTHUS OCCIDENTALIS	39	12"	BARE ROOT	4/29 - 9/27	

Kimley » Horn Ш

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ORIGINAL ISSUE: 10/17/2022 KHA PROJECT NO.

190118000 SHEET NUMBER

EC7.1