

BUCKEYE XO, LLC

# BUCKEYE YARD STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS

STATE OF OHIO, FRANKLIN COUNTY  
CITY OF COLUMBUS  
2022

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UPPER PORTION OF EXISTING STREAM 11



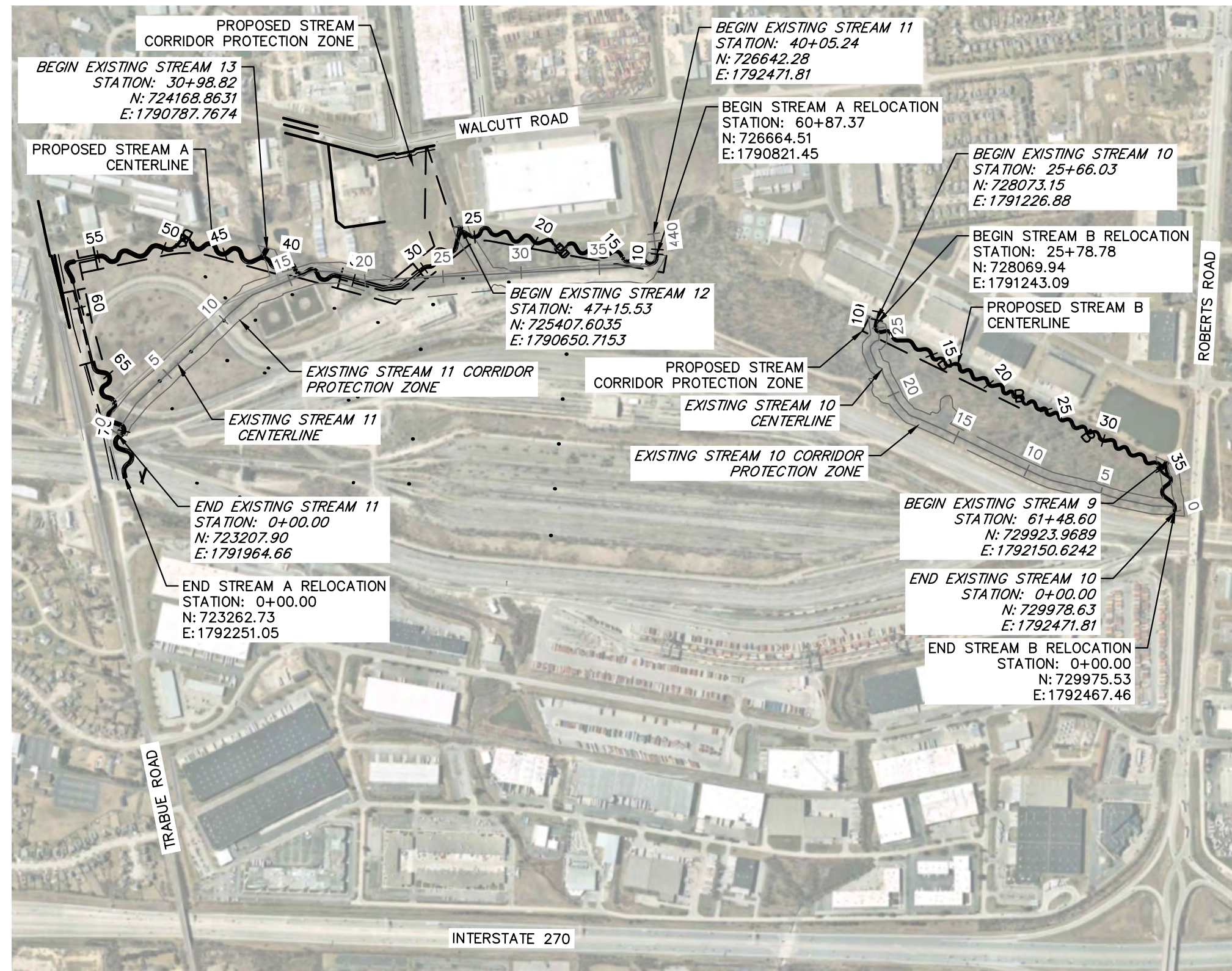
LOWER PORTION OF EXISTING STREAM 11



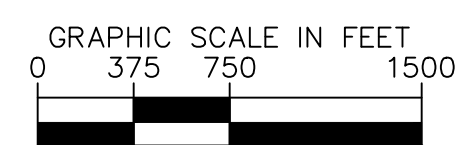
UPPER PORTION OF EXISTING STREAM 10



LOWER PORTION OF EXISTING STREAM 10



SITE LOCATION MAP



USGS 8-DIGIT HUC BOUNDARY MAP

UPPER SCIOTO  
HUC ID: 05060001  
NOT TO SCALE



No.	REVISIONS	DATE	BY	APR DATE	APR BY

**Kimley-Horn**  
© 2022 KIMLEY-HORN AND ASSOCIATES, INC.  
7965 NORTH HIGH STREET, SUITE 200  
COLUMBUS, OH 43235  
PHONE: 614-472-8646  
WWW.KIMLEY-HORN.COM

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

COVER SHEET

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

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EC0.0

**PROJECT TEAM**

DEVELOPER/OWNER  
BUCKEYE XO, LLC  
2100 ROSS AVE, STE. 895  
DALLAS, TX 75201  
TEL: (214) 883-0269  
CONTACT: DAVIS BITTNER  
EMAIL: DAVISB@XEBEALTY.COM

CIVIL ENGINEER  
KIMLEY-HORN AND ASSOCIATES, INC.  
7965 NORTH HIGH STREET, SUITE 200  
COLUMBUS, OH 43235  
TEL: (614) 454-6696  
CONTACT: JUSTIN MULLER, P.E.  
EMAIL: JUSTIN.MULLER@KIMLEY-HORN.COM

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**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.

**SUBSURFACE:**

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/EASEMENT:**

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 STOCKPIILING 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.

**MATERIALS:**

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 OH0000005 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 NCEQ 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 RAIN GAUGE 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 OH0000005. 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 SITE.

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:**

- STAKE THE STREAM PER SPECIFICATIONS..
- 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.
- 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 VAMES, 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.
- 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.
- THE CONTRACTOR SHALL STABILIZE THE SITE AS AREAS ARE BROUGHT UP TO FINISHED GRADE.
- INSTALL PLANTINGS ACCORDING TO THE PLANTING PLANS.

**UTILITIES:**

THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES INSIDE THE CONSTRUCTION CORRIDOR.

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 UTILITIES.

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 PROCESS.

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 1/4 TO 1/2 INCH OF TOPSOIL, ROLL LIGHTLY AND WATER WITH A SPRAY.

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 <b>Kimley-Horn</b>	© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 7865 NORTH HIGH STREET, SUITE 200 COLUMBUS, OH 43235 PHONE: 614-472-8646 WWW.KIMLEY-HORN.COM
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	MCS	MCS	JMM

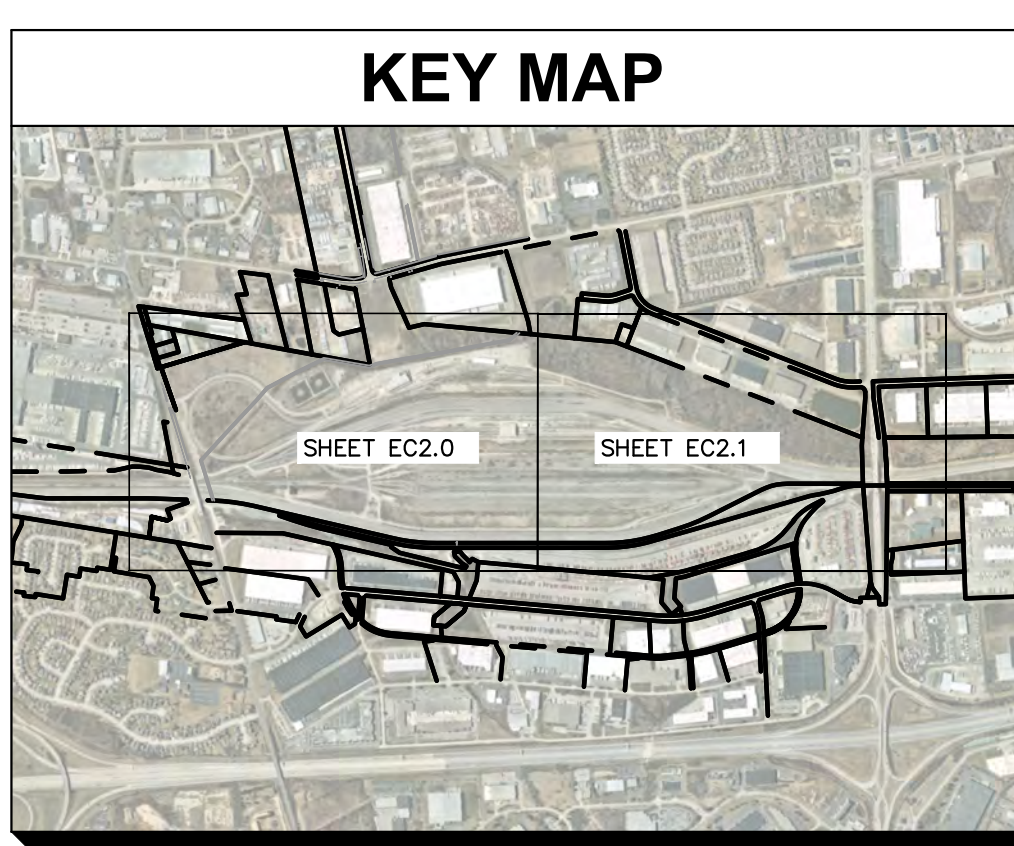
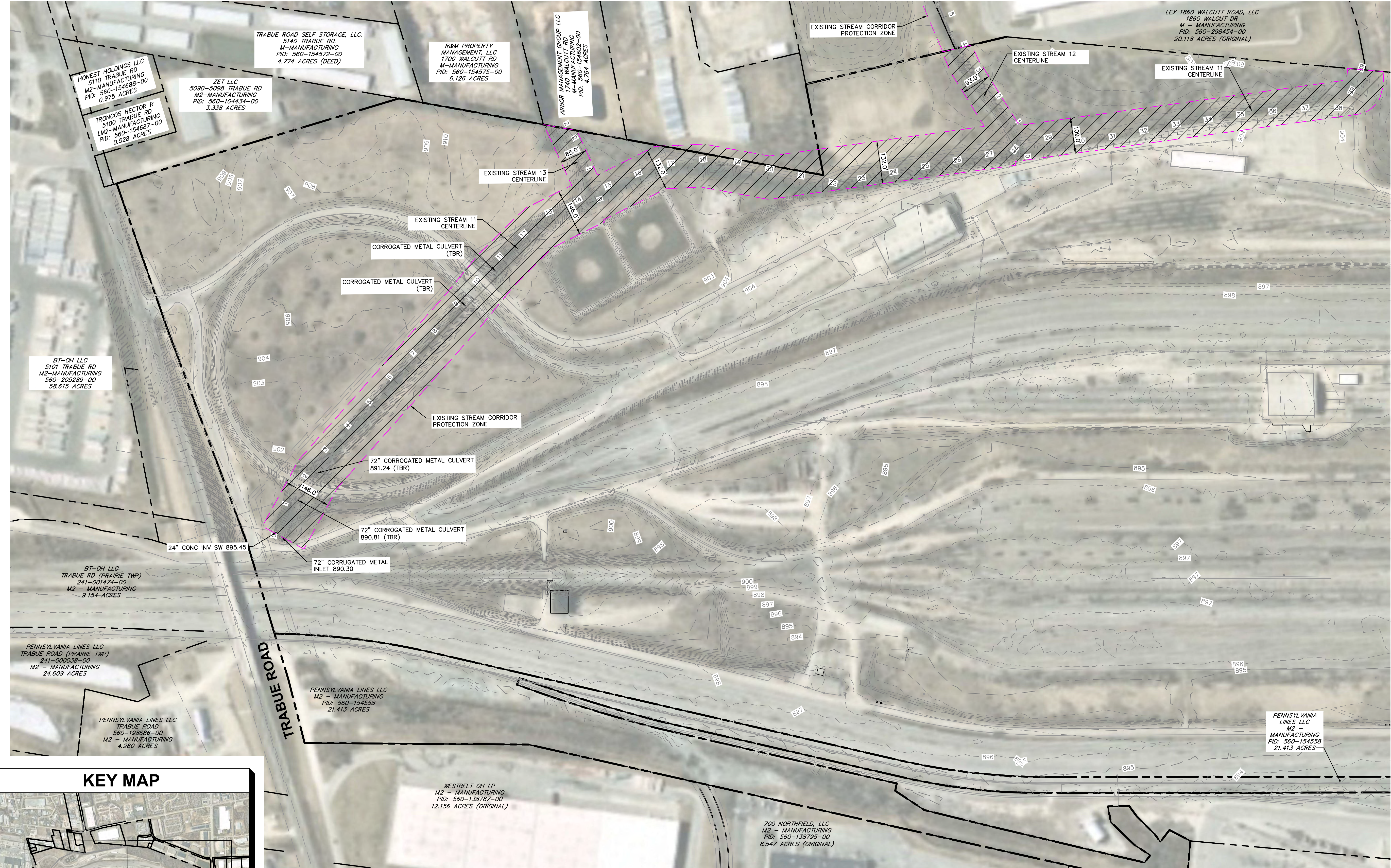
**GENERAL NOTES**

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

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KHA PROJECT NO. 190118000
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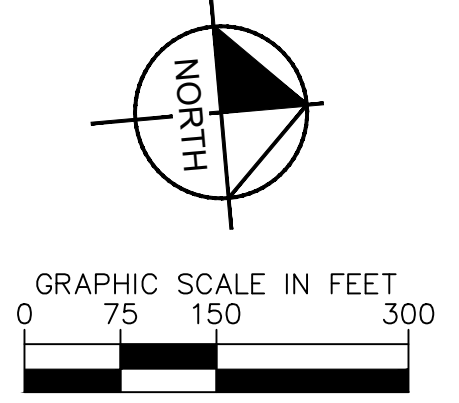


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**LEGEND**

- |           |                        |     |  |   |                               |
|-----------|------------------------|-----|--|---|-------------------------------|
| ---       | EXISTING PROPERTY LINE | --- | EXISTING PAVEMENT                        | ▨ | LIMITS OF TREES TO BE REMOVED |
| - - -     | EXISTING RIGHT OF WAY  | --- | EXISTING WATER LINE                      |   |                               |
| - · - · - | EXISTING EASEMENT      | --- | EXISTING GAS LINE                        |   |                               |
| ---       | EXISTING PAVEMENT      | --- | EXISTING OVERHEAD LINE                   |   |                               |
| ---       | EXISTING CENTERLINE    | --- | EXISTING ELECTRIC                        |   |                               |
| ---       | EXISTING STORM         | --- | EXISTING STREAM CORRIDOR PROTECTION ZONE |   |                               |
| ---       | EXISTING SANITARY      |     |  |   |                               |



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 PHONE: 614-472-8946  
 WWW.KIMLEY-HORN.COM

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

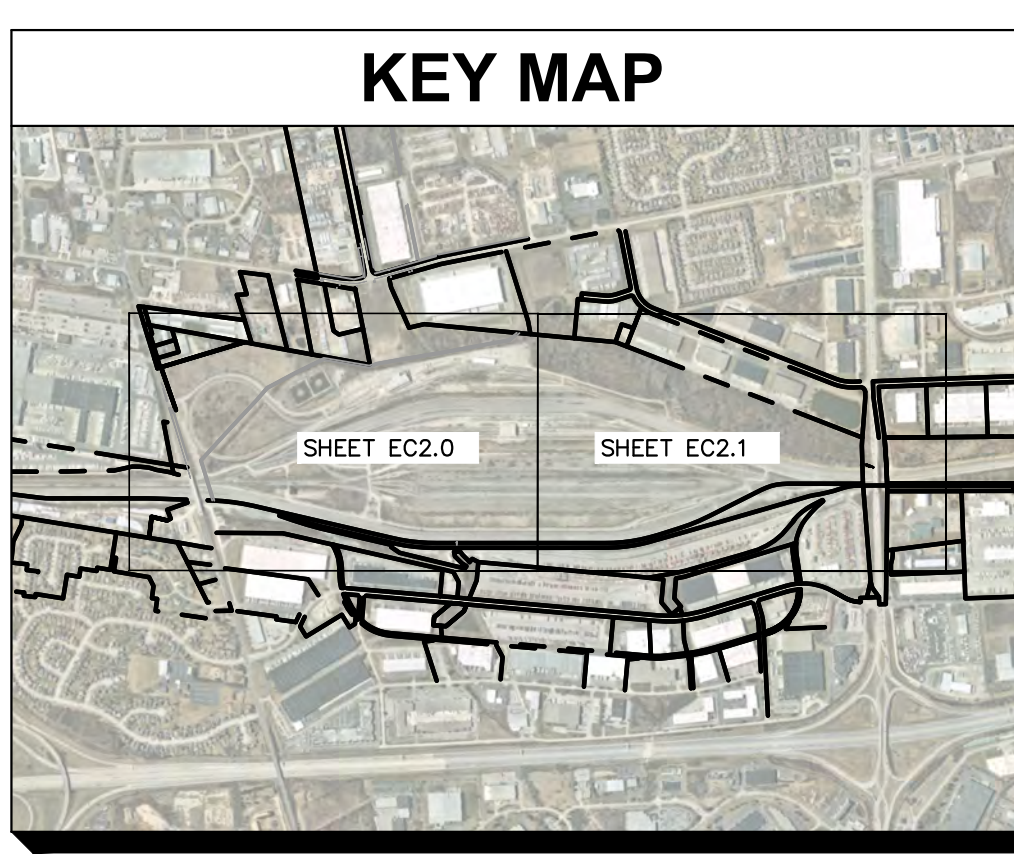
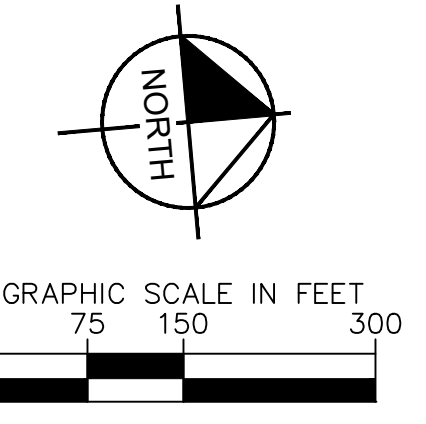
**EXISTING  
 CONDITIONS AND  
 TREE REMOVAL  
 PLAN**

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

ORIGINAL ISSUE:  
 10/17/2022  
 KHA PROJECT NO.  
 190118000  
 SHEET NUMBER  
**EC2.0**



Drawing name: K:\CIB\_LDEA\190118000\_4dec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlotSheets\9\_StreamRestoration\EXISTING CONDITIONS AND TREE REMOVAL PLAN.dwg    OVERVIEW B    Oct 17, 2022, 5:50pm    by: bill.kebbas  
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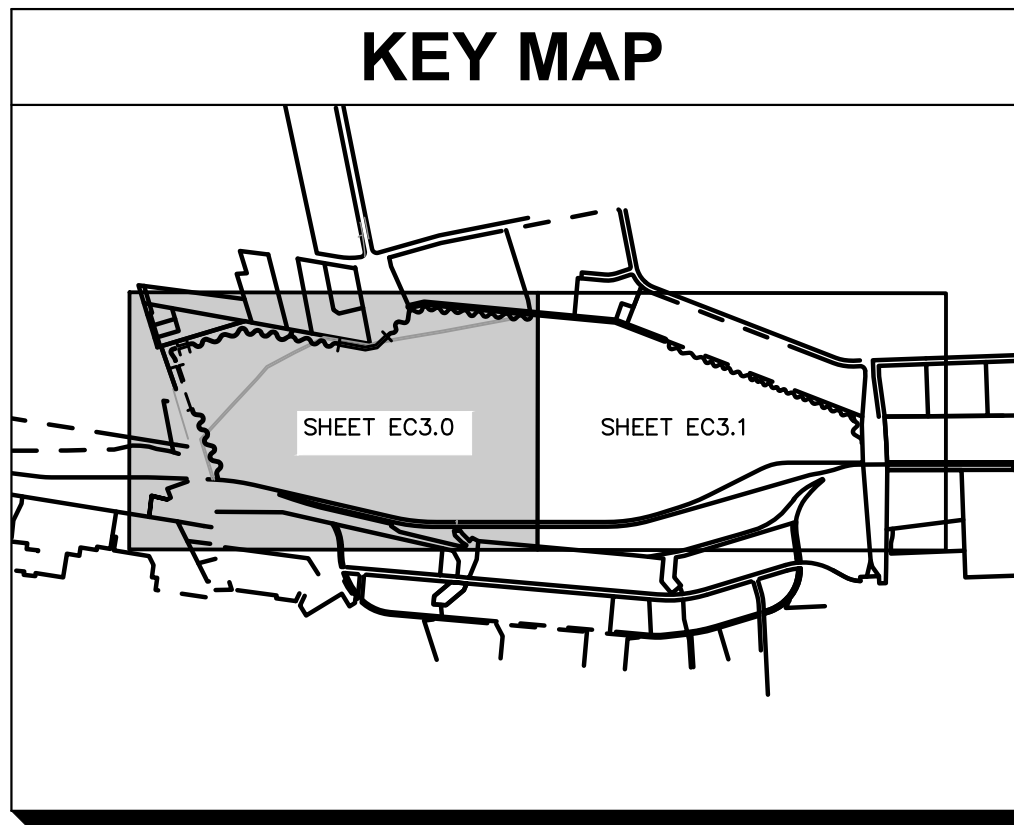
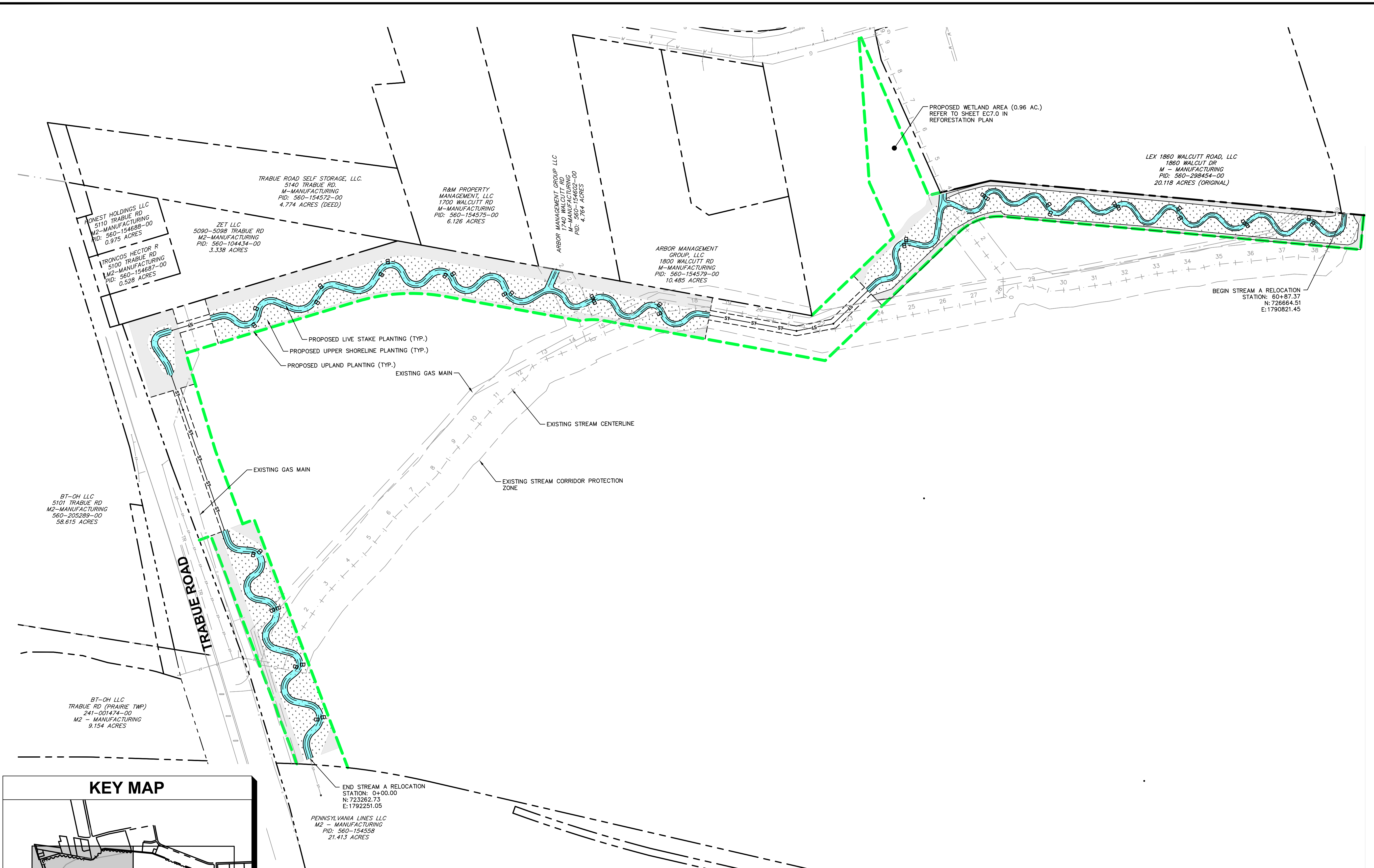


LEGEND	
	EXISTING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING PAVEMENT
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	EXISTING STREAM CORRIDOR PROTECTION ZONE
	LIMITS OF TREES TO BE REMOVED

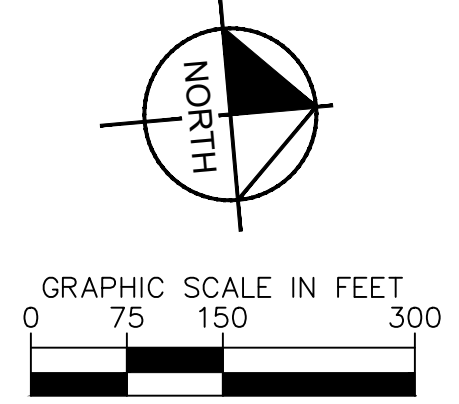
© 2022 KIMLEY-HORN AND ASSOCIATES, INC. 7865 NORTH HIGH STREET, SUITE 200 COLUMBUS, OH 43235 PHONE: 614-472-8646 WWW.KIMLEY-HORN.COM	
DESIGNED BY: MCS	CHECKED BY: JMM
DRAWN BY: MCS	DATE: _____
SCALE:	BY: _____
<b>EXISTING CONDITIONS AND TREE REMOVAL PLAN</b>	
<b>STREAM CORRIDOR PROTECTION ZONE RESTORATION PLANS</b> <b>BUCKEYE YARD</b> CITY OF COLUMBUS, FRANKLIN COUNTY, OH	
ORIGINAL ISSUE: 10/17/2022	
KHA PROJECT NO. 190118000	
SHEET NUMBER	
<b>EC2.1</b>	



Drawing name: K:\CIB\_LDE\190118000\_3dec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamReforestation\PLANTING PLAN.dwg OVERVIEW A Oct 17, 2022 5:50pm by: billakaba  
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LEGEND					
	EXISTING PROPERTY LINE		EXISTING WATER LINE		PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	EXISTING RIGHT OF WAY		EXISTING GAS LINE		LIVE STAKE PLANTING (3.88 AC.)
	EXISTING EASEMENT		EXISTING OVERHEAD LINE		UPPER SHORELINE PLANTING (11.56 AC.)
	EXISTING PAVEMENT		EXISTING ELECTRIC		UPLAND PLANTING (5.99 AC.)
	EXISTING CENTERLINE		PROPOSED RIGHT-OF-WAY		
	EXISTING STORM		PROPOSED STORM		
	EXISTING SANITARY				



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SCALE:  
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 DRAWN BY: MCS  
 CHECKED BY: JMM

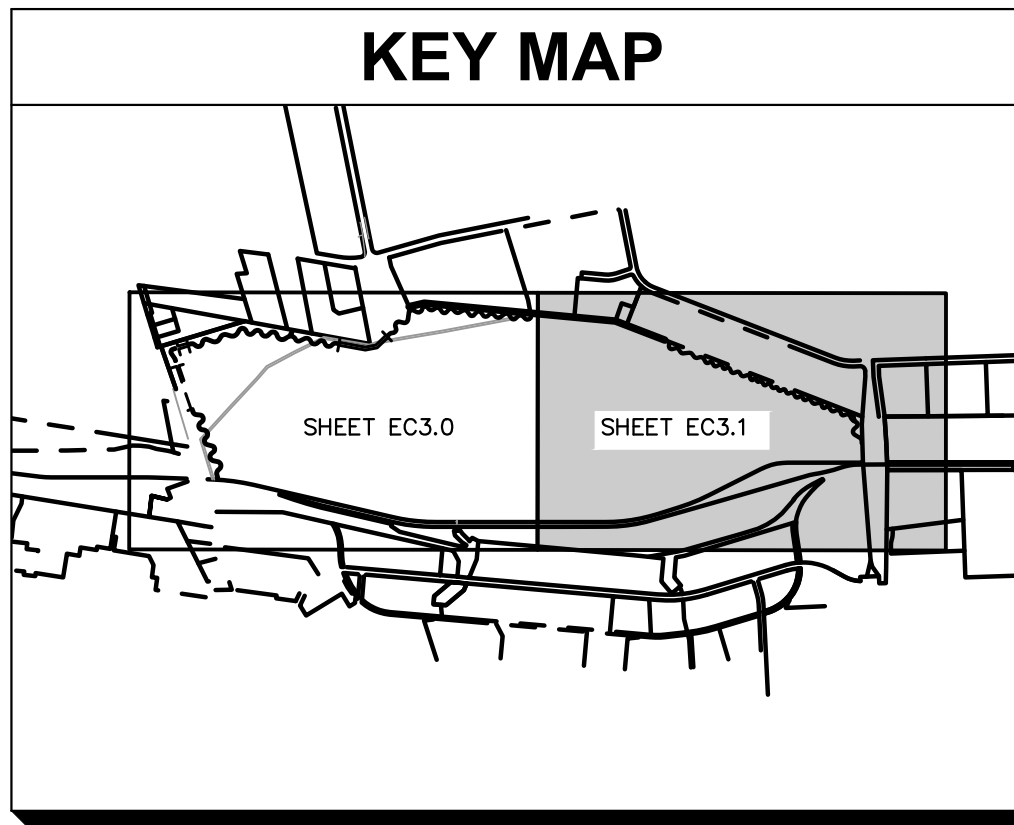
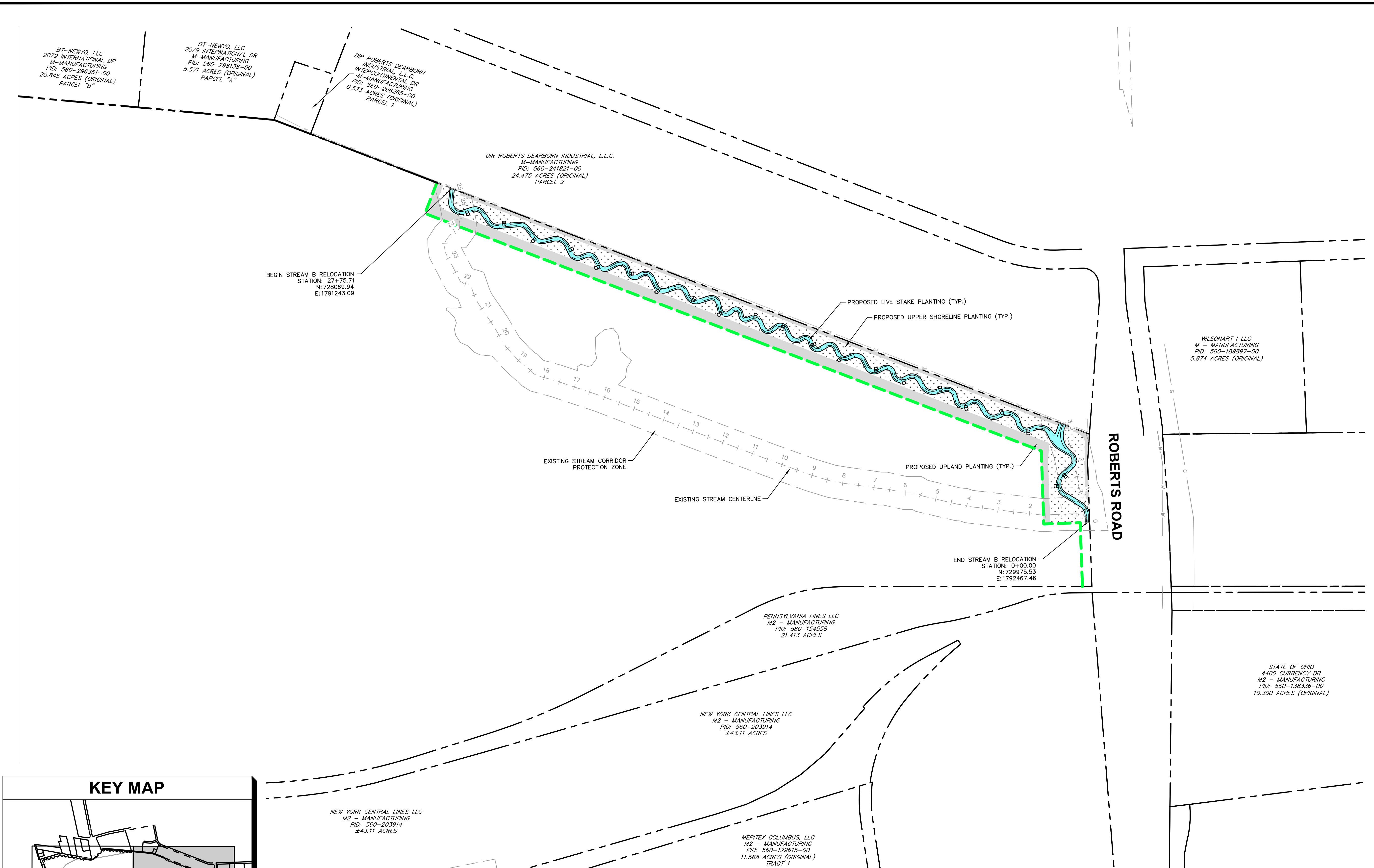
## PLANTING PLAN OVERVIEW

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

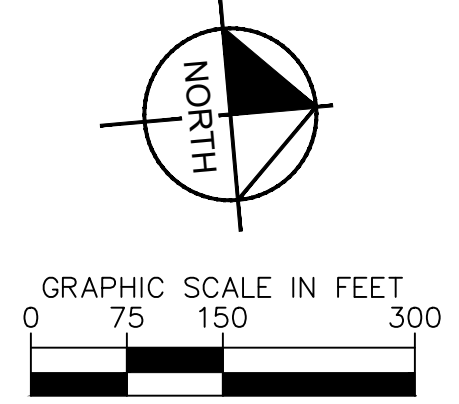
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 10/17/2022  
 KHA PROJECT NO.  
 190118000  
 SHEET NUMBER  
**EC3.0**



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LEGEND					
	EXISTING PROPERTY LINE		EXISTING WATER LINE		PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	EXISTING RIGHT OF WAY		EXISTING GAS LINE		LIVE STAKE PLANTING (3.88 AC.)
	EXISTING EASEMENT		EXISTING OVERHEAD LINE		UPPER SHORELINE PLANTING (11.56 AC.)
	EXISTING PAVEMENT		EXISTING ELECTRIC		UPLAND PLANTING (5.99 AC.)
	EXISTING CENTERLINE		PROPOSED RIGHT-OF-WAY		
	EXISTING STORM		PROPOSED STORM		
	EXISTING SANITARY				



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SCALE:  
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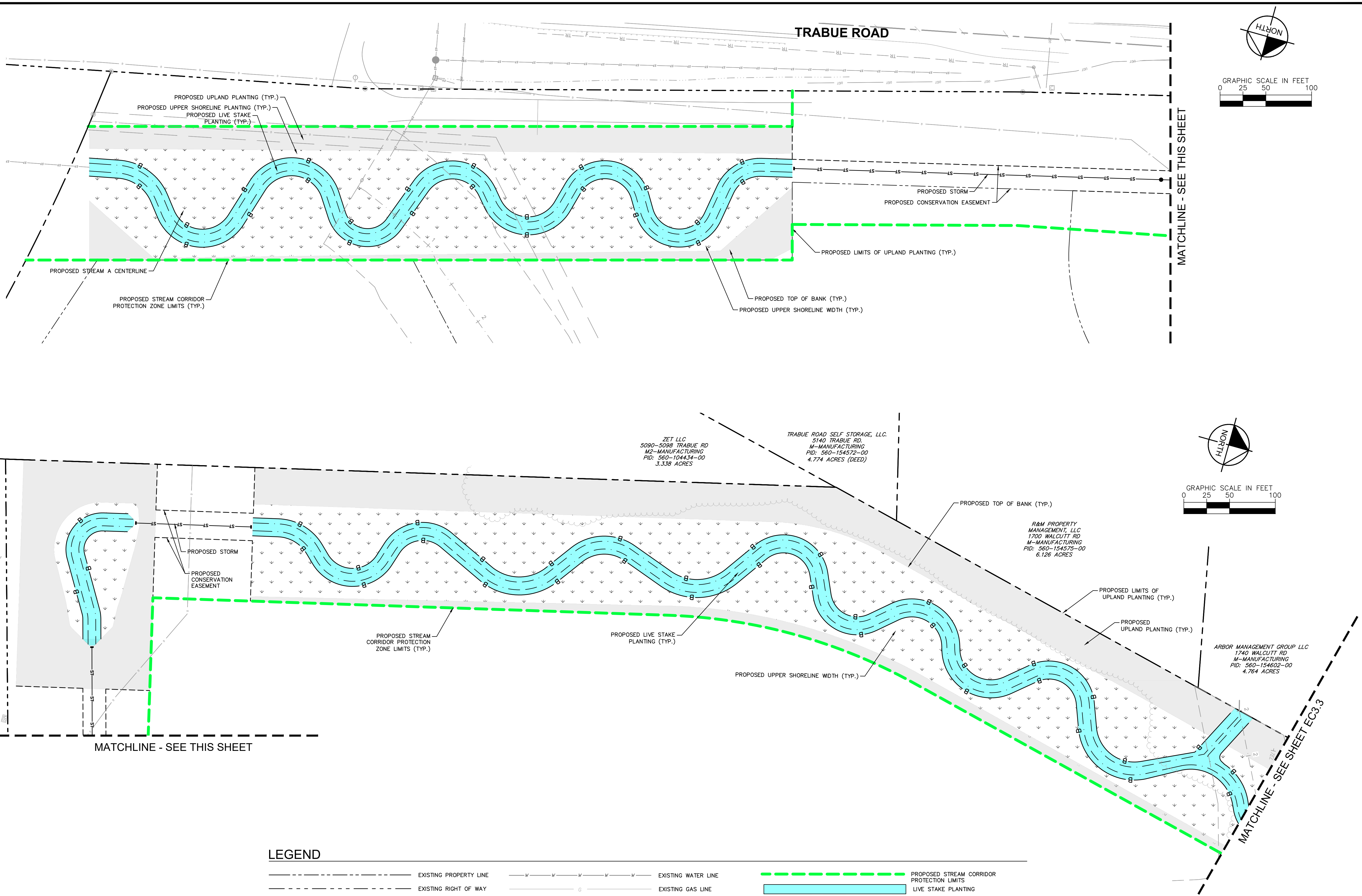
## PLANTING PLAN OVERVIEW

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

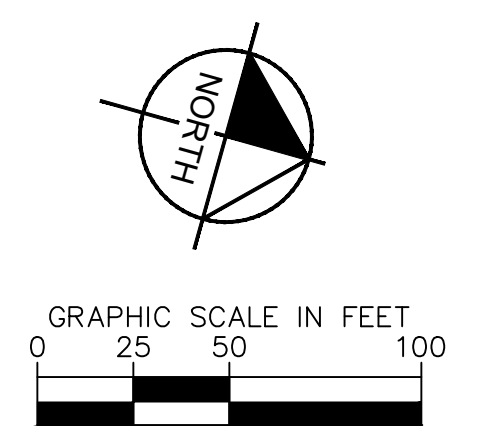
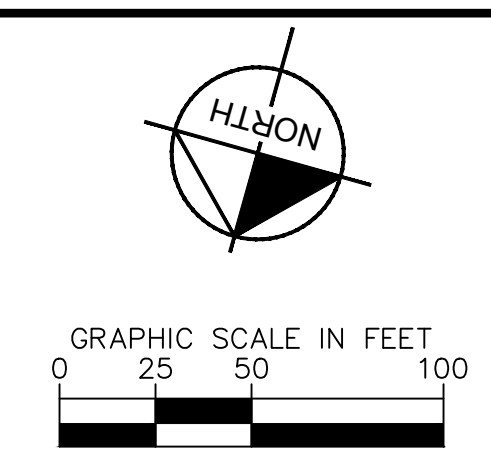
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 10/17/2022  
 KHA PROJECT NO.  
 190118000  
 SHEET NUMBER  
**EC3.1**



Drawing name: K:\CIB\_LDEA\19018000\_3ddec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamRestoration\Planting Plan.dwg STREAM A - 1 Oct 17, 2022 5:50pm by: bill-ekaba  
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TRABUE ROAD



**LEGEND**

---	EXISTING PROPERTY LINE	—W—W—W—W—W—W—	EXISTING WATER LINE	---	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
---	EXISTING RIGHT OF WAY	---	EXISTING GAS LINE	---	LIVE STAKE PLANTING
---	EXISTING EASEMENT	---	EXISTING OVERHEAD LINE	---	UPPER SHORELINE PLANTING
---	EXISTING PAVEMENT	---	EXISTING ELECTRIC	---	UPLAND PLANTING
---	EXISTING CENTERLINE	---	PROPOSED RIGHT-OF-WAY	---	
---	EXISTING STORM	---	PROPOSED STORM	---	
---	EXISTING SANITARY	---		---	

ZET LLC  
5090-5098 TRABUE RD  
M2-MANUFACTURING  
PID: 560-104434-00  
3.338 ACRES

TRABUE ROAD SELF STORAGE, LLC  
5140 TRABUE RD.  
M-MANUFACTURING  
PID: 560-154372-00  
4.774 ACRES (DEED)

R&M PROPERTY MANAGEMENT, LLC  
1700 WALCUTT RD  
M-MANUFACTURING  
PID: 560-154575-00  
6.126 ACRES

ARBOR MANAGEMENT GROUP LLC  
1740 WALCUTT RD  
M-MANUFACTURING  
PID: 560-154602-00  
4.764 ACRES

No.	REVISIONS	DATE	BY	APR DATE	APR BY

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

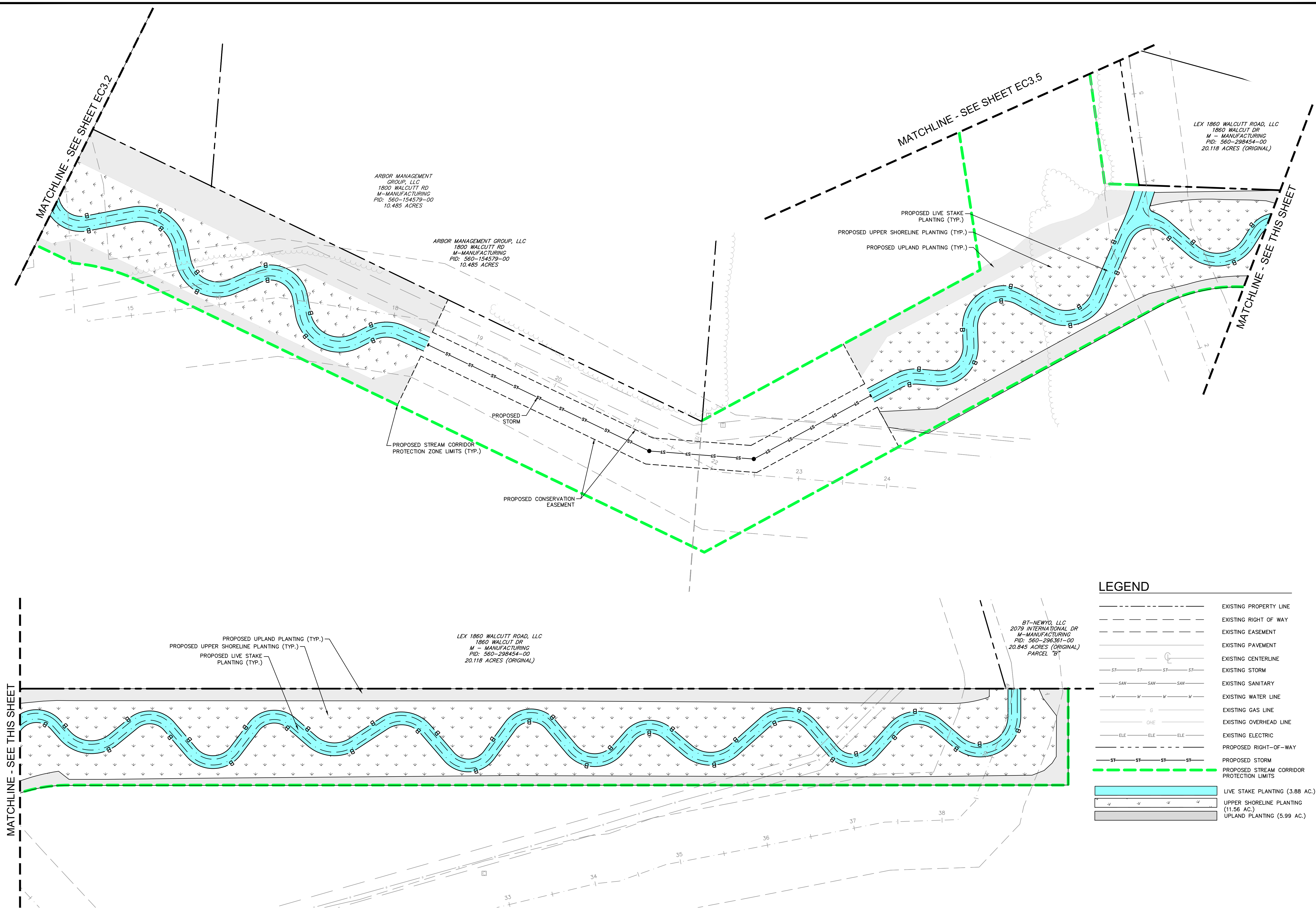
**PLANTING PLAN**

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  
**EC3.2**



Drawing name: K:\CIB\_LDEA\190118000\_3dloc\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamRestoration\Planting Plan.dwg STREAM A - 2 Oct 17, 2022 5:50pm by: bill skeeba  
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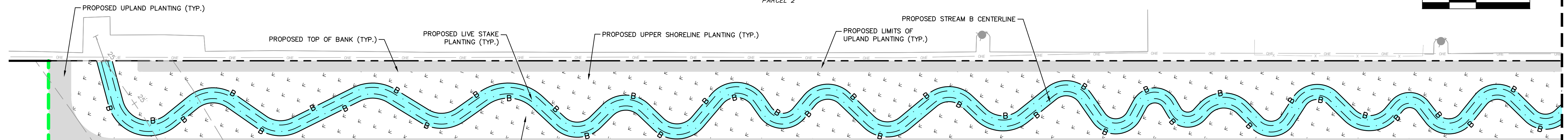
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	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	PROPOSED RIGHT-OF-WAY
	PROPOSED STORM
	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	LIVE STAKE PLANTING (3.88 AC.)
	UPPER SHORELINE PLANTING (11.56 AC.)
	UPLAND PLANTING (5.99 AC.)

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DESIGNED BY: MCS	DRAWN BY: MCS	CHECKED BY: JMM
<b>PLANTING PLAN</b>		
STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS <b>BUCKEYE YARD</b> CITY OF COLUMBUS, FRANKLIN COUNTY, OH		
ORIGINAL ISSUE: 10/17/2022		
KHA PROJECT NO. 190118000		
SHEET NUMBER		
<b>EC3.3</b>		REVISIONS No. DATE BY APR DATE APR BY

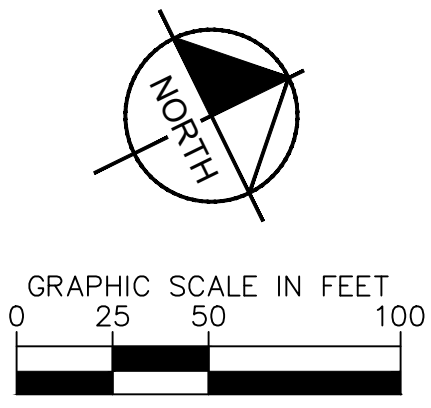


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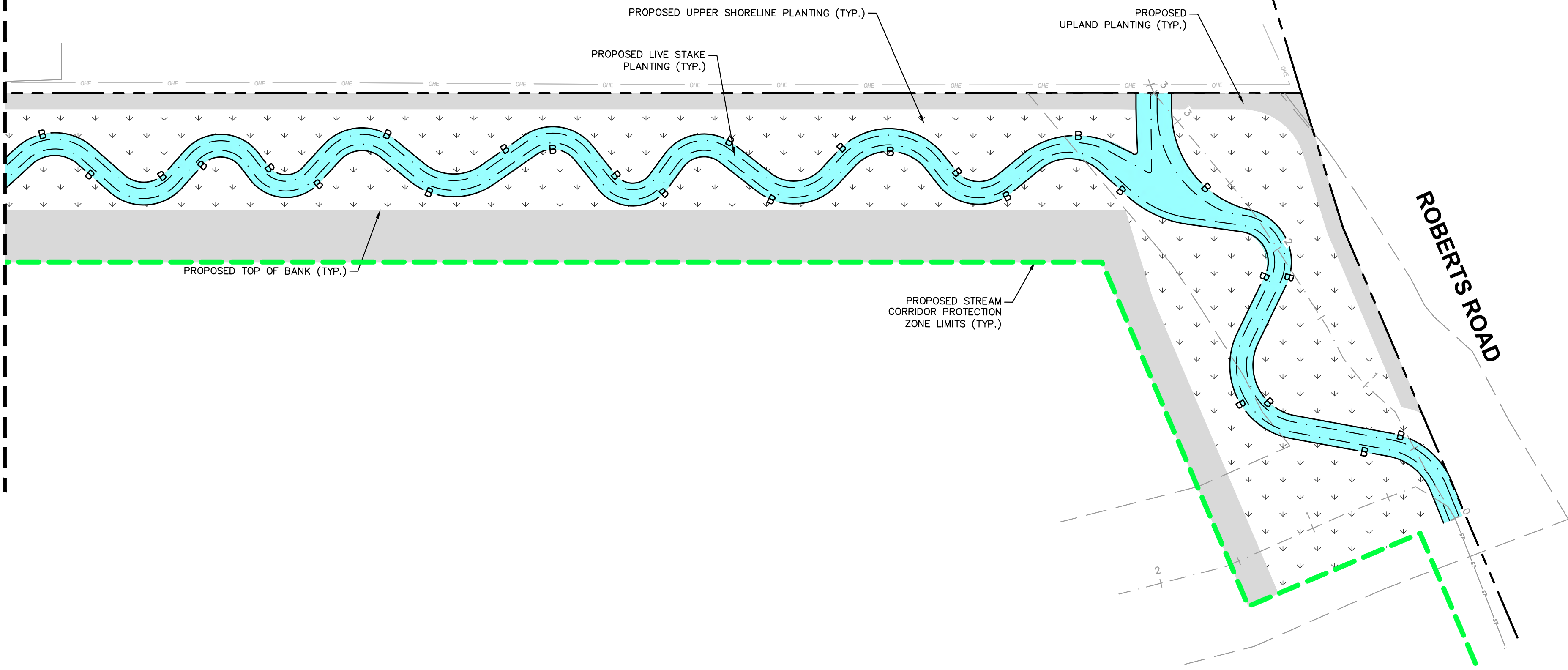
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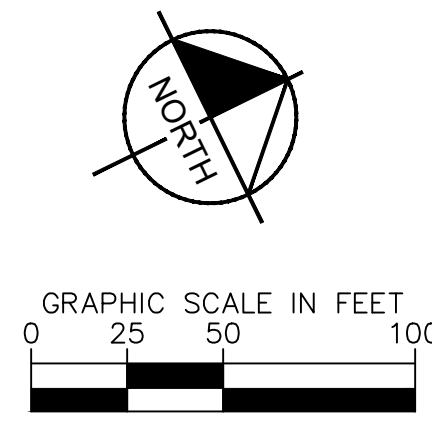
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M-MANUFACTURING  
PID: 560-241821-00  
24.475 ACRES (ORIGINAL)  
PARCEL 2



MATCHLINE - SEE THIS SHEET



DIR ROBERTS DEARBORN INDUSTRIAL, L.L.C.  
M-MANUFACTURING  
PID: 560-241821-00  
24.475 ACRES (ORIGINAL)  
PARCEL 2



ROBERTS ROAD

MATCHLINE - SEE THIS SHEET

LEGEND

	EXISTING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	PROPOSED RIGHT-OF-WAY
	PROPOSED STORM
	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	LIVE STAKE PLANTING (3.88 AC.)
	UPPER SHORELINE PLANTING (11.56 AC.)
	UPLAND PLANTING (5.99 AC.)

No.	REVISIONS	DATE	BY	APR DATE	APR BY

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

PLANTING PLAN

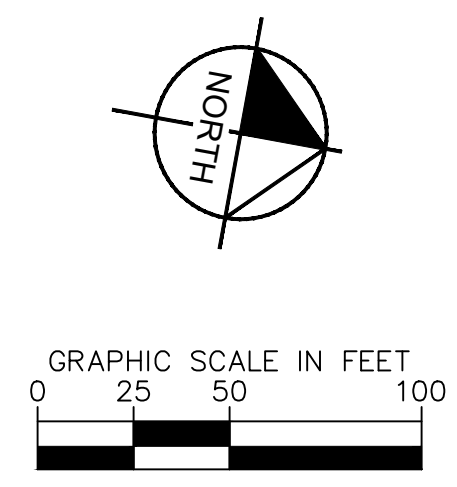
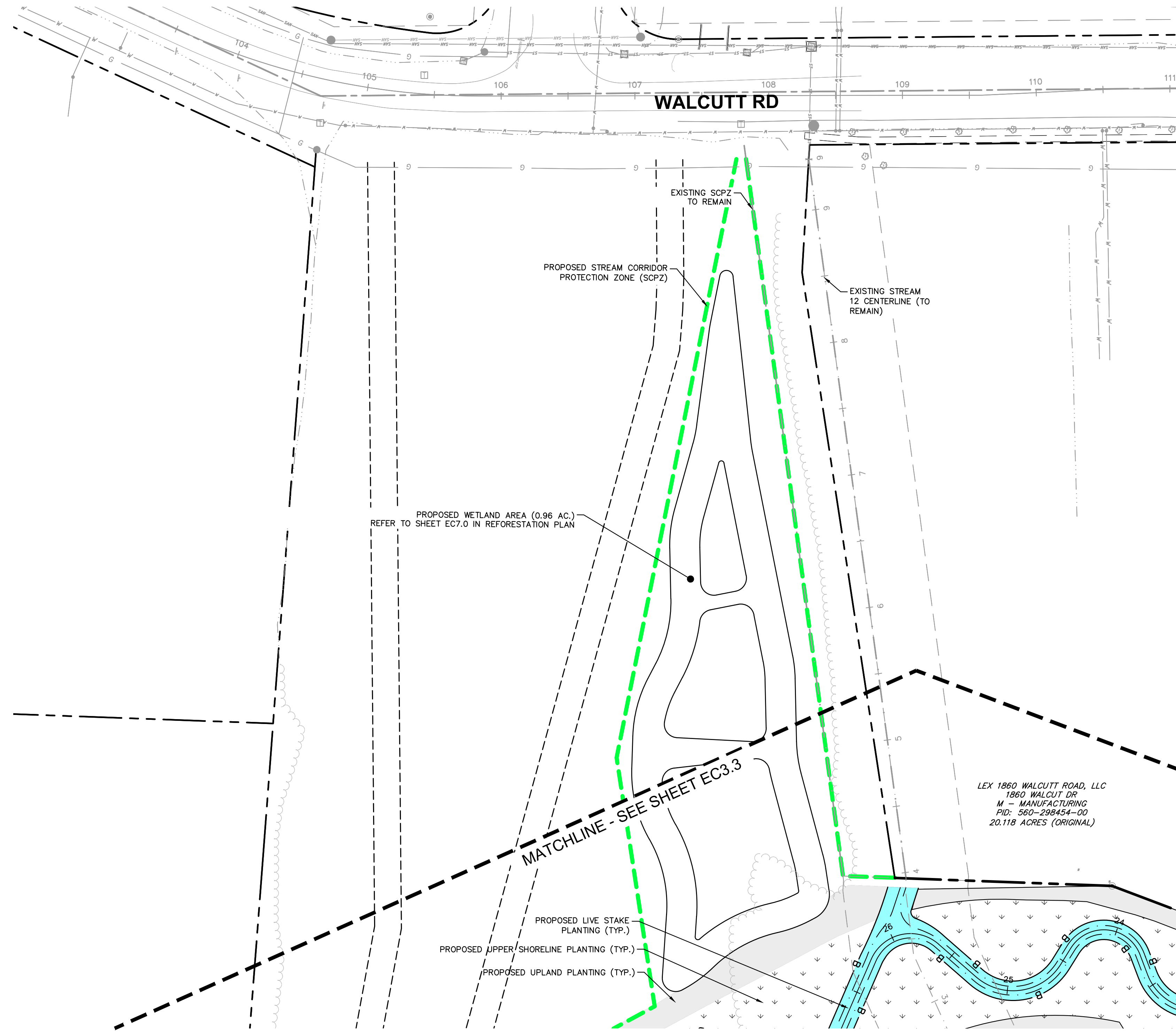
STREAM CORRIDOR PROTECTION ZONE  
REFORESTATION PLANS  
**BUCKEYE YARD**  
CITY OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE:  
10/17/2022  
KHA PROJECT NO.  
190118000  
SHEET NUMBER  
**EC3.4**



Drawing name: K:\CIB\_LDEA\19018000\_3drec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamReforestation\PLANTING PLAN.dwg EC3.6 PLANTING PLAN Oct 17, 2022 5:50pm By: bill-shebb

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LEX 1860 WALCUTT ROAD, LLC  
1860 WALCUTT DR  
M - MANUFACTURING  
PID: 560-298454-00  
20.118 ACRES (ORIGINAL)

LEGEND	
	EXISTING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	PROPOSED RIGHT-OF-WAY
	PROPOSED STORM
	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	LIVE STAKE PLANTING (3.88 AC.)
	UPPER SHORELINE PLANTING (11.56 AC.)
	UPLAND PLANTING (5.99 AC.)

No.	REVISIONS	DATE	BY	APR DATE	APR BY

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

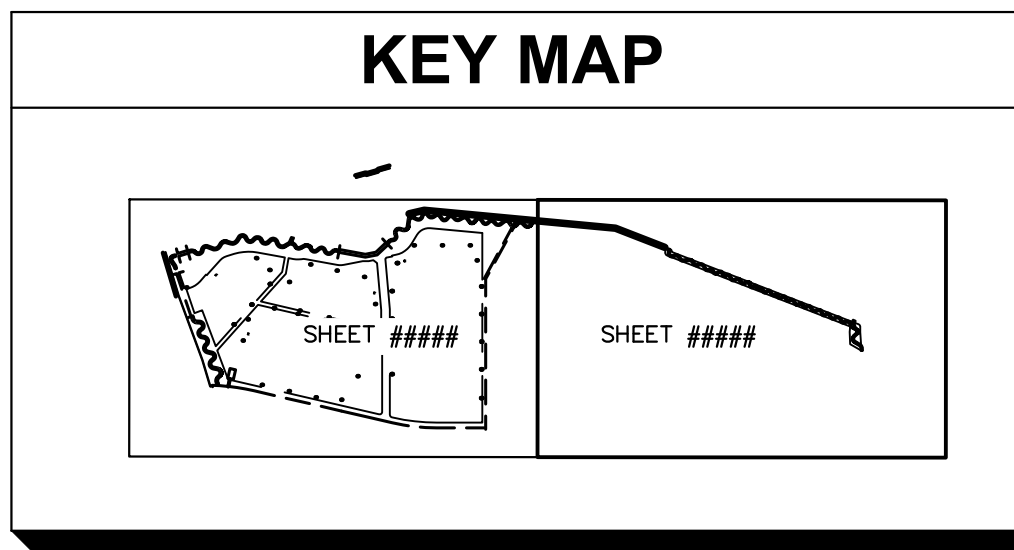
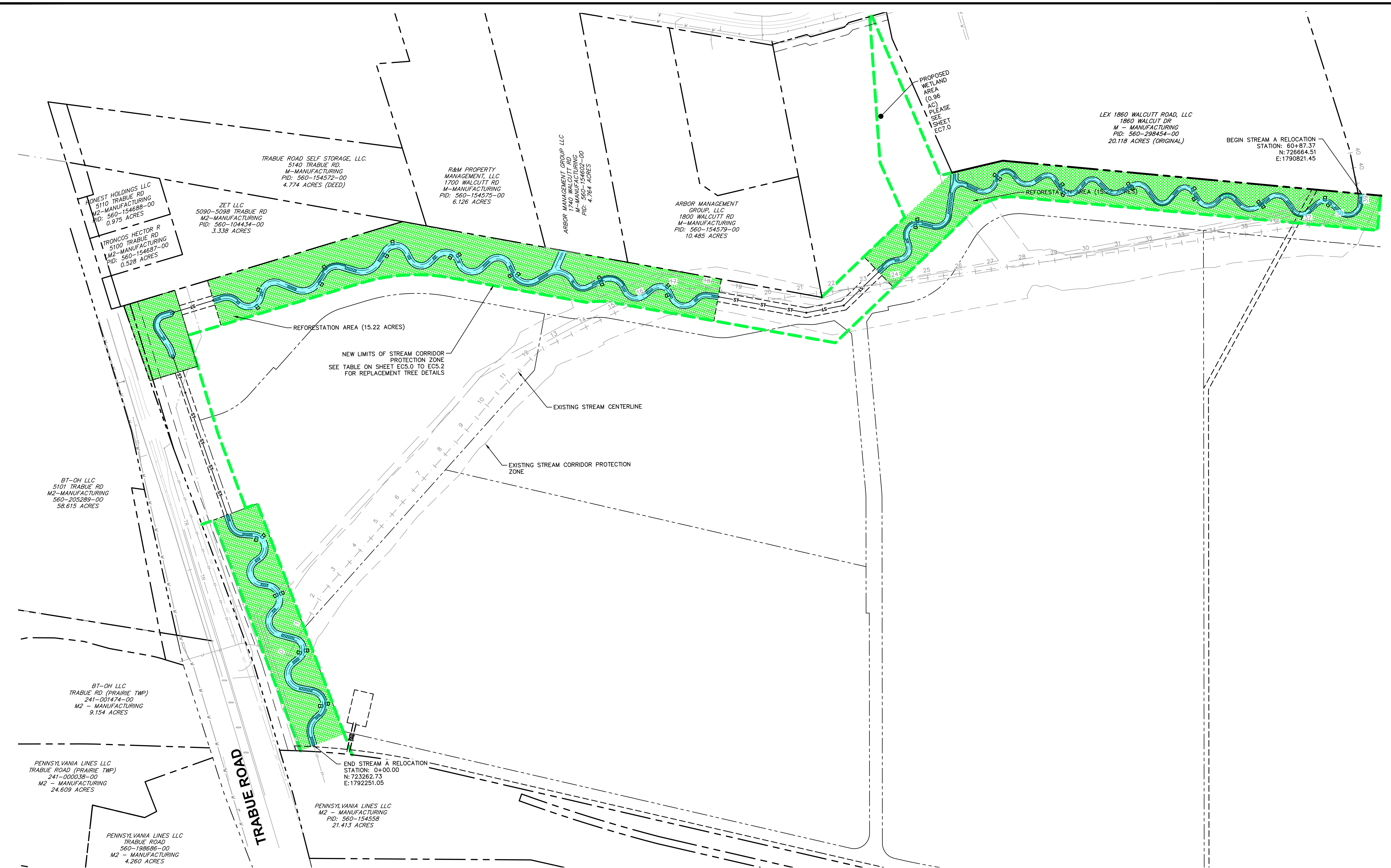
# PLANTING PLAN

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  
**EC3.5**

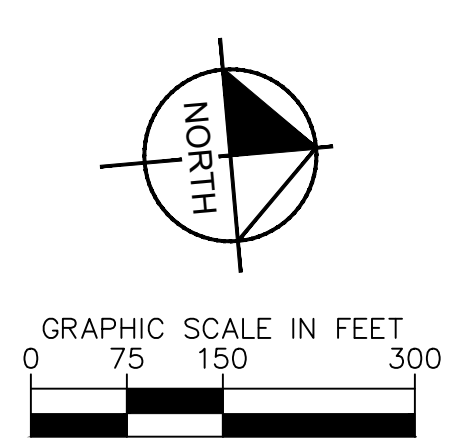


Drawing name: K:\CIBL\DEVA\190118000\_3ddec\_Buckeye\_Yard\_Columbus\_OH\2\_Design\CAD\PlanSheets\9\_Stream\Reforestation\REFORESTATION\_PLAN.dwg EC4.0 REFORESTATION PLAN OVERVIEW Oct 17, 2022 5:50pm by: bill.skebb  
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### LEGEND

	EXISTING PROPERTY LINE		EXISTING WATER LINE
	EXISTING RIGHT OF WAY		EXISTING GAS LINE
	EXISTING EASEMENT		EXISTING OVERHEAD LINE
	EXISTING PAVEMENT		EXISTING ELECTRIC
	EXISTING CENTERLINE		PROPOSED RIGHT-OF-WAY
	EXISTING STORM		PROPOSED STORM
	EXISTING SANITARY		PROPOSED STREAM CORRIDOR PROTECTION LIMITS
			REFORESTATION AREA (15.22 AC.)



No.	REVISIONS	DATE	BY	APR DATE	APR BY

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

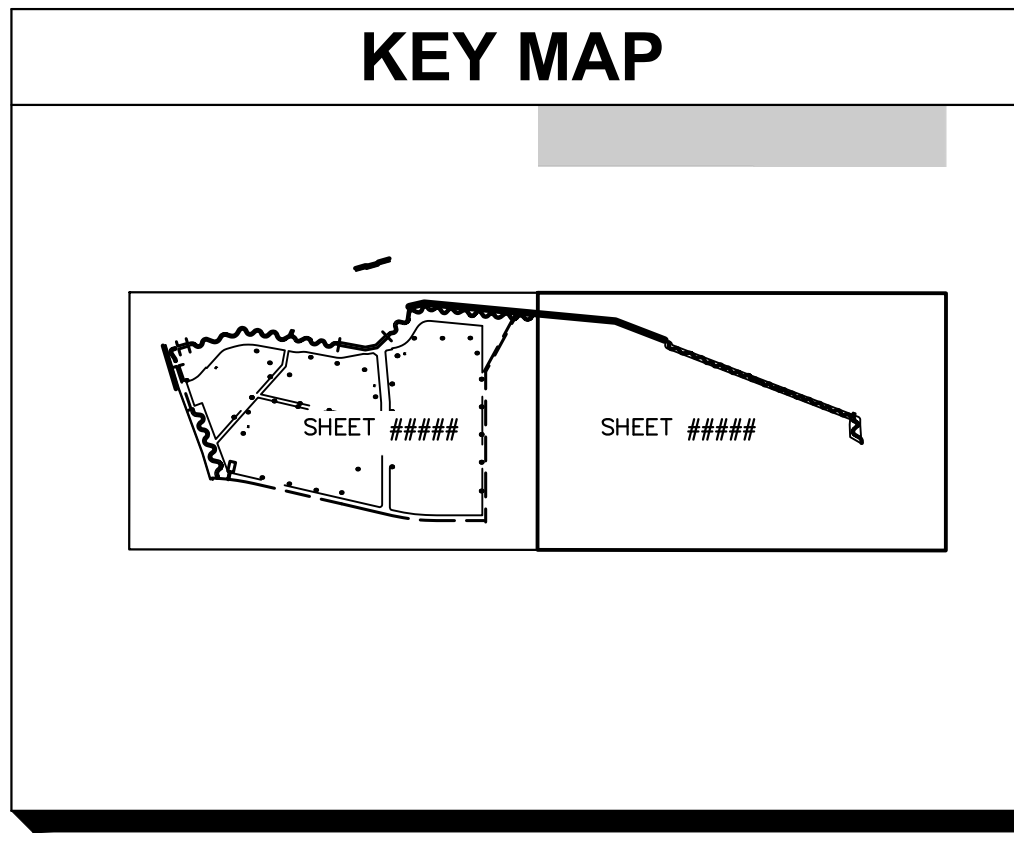
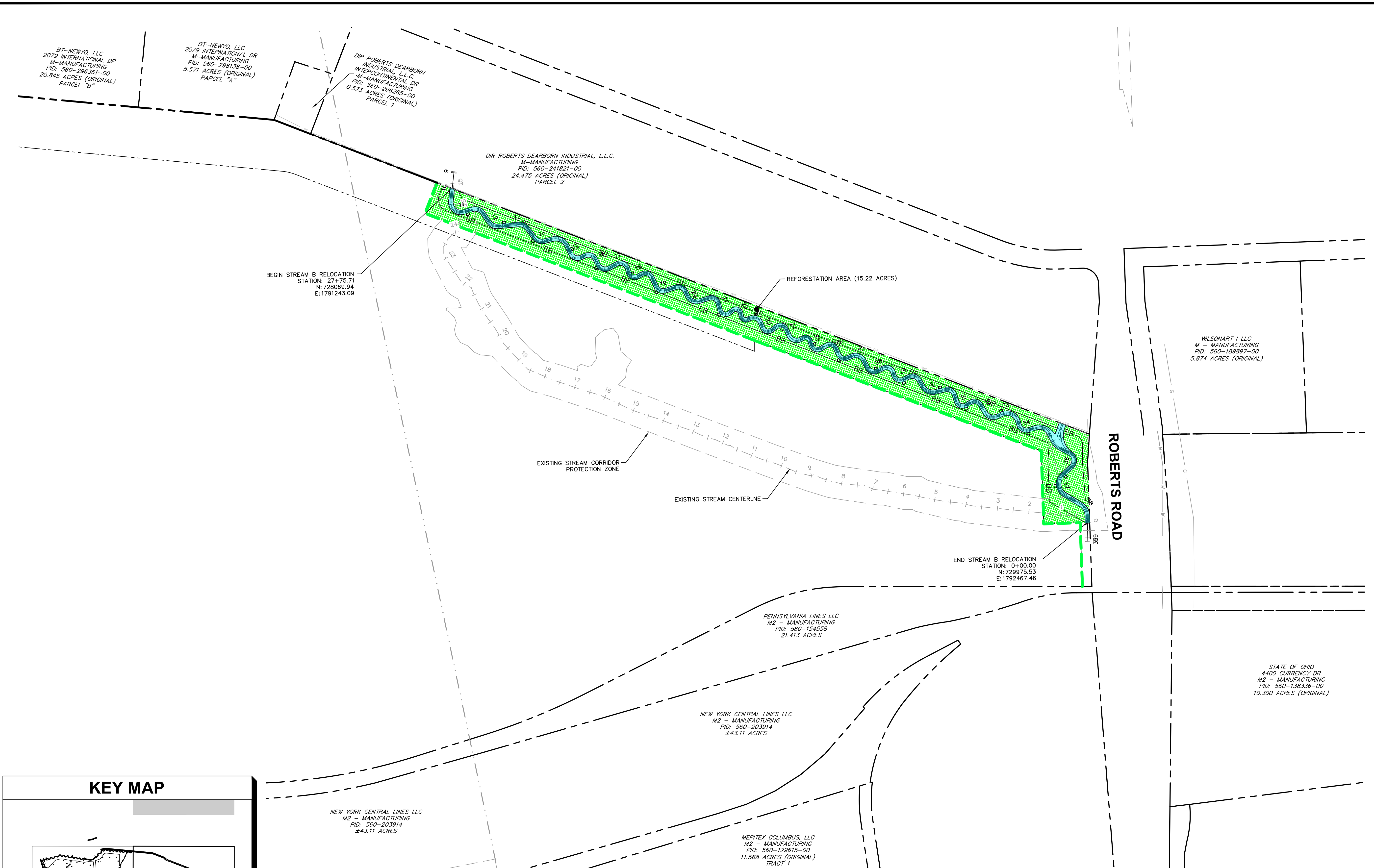
## REFORESTATION PLAN OVERVIEW

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  
**EC4.0**

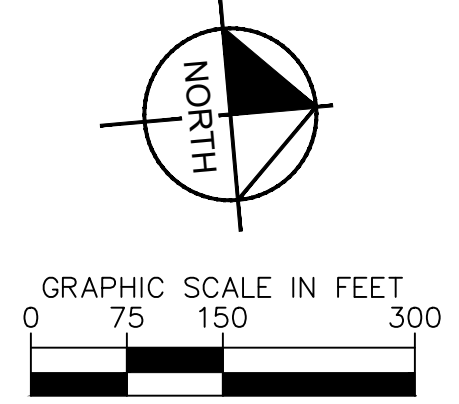


Drawing name: K:\CIB\JDEA\190118000\_4dec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamReforestation\REFORESTATION\_PLAN.dwg EC4.1 REFORESTATION PLAN OVERVIEW Oct 17, 2022, 5:50pm. By: bill-kebbas  
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### LEGEND

	EXISTING PROPERTY LINE		EXISTING WATER LINE
	EXISTING RIGHT OF WAY		EXISTING GAS LINE
	EXISTING EASEMENT		EXISTING OVERHEAD LINE
	EXISTING PAVEMENT		EXISTING ELECTRIC
	EXISTING CENTERLINE		PROPOSED RIGHT-OF-WAY
	EXISTING STORM		PROPOSED STORM
	EXISTING SANITARY		PROPOSED STREAM CORRIDOR PROTECTION LIMITS
			REFORESTATION AREA (15.22 AC.)



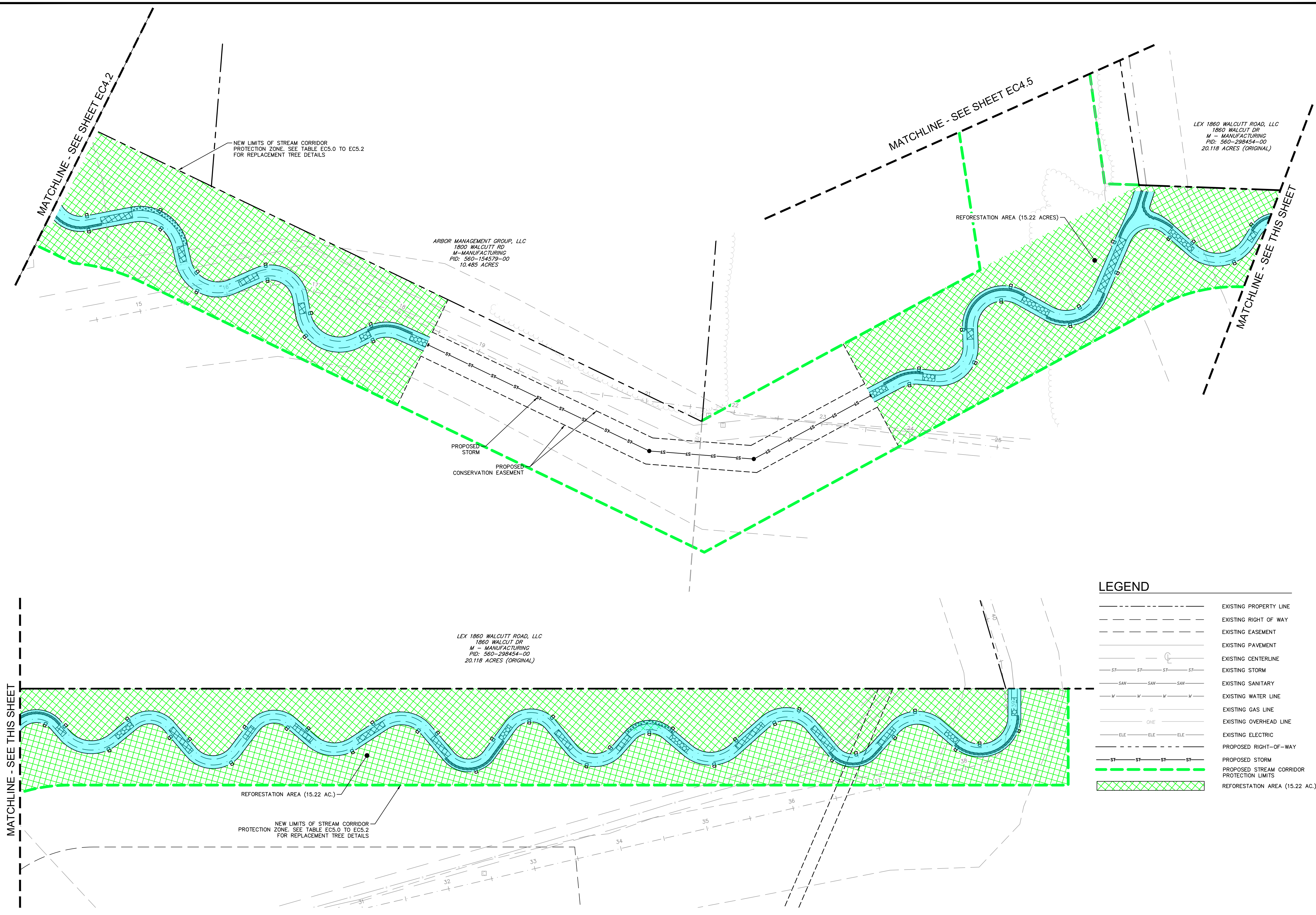
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DESIGNED BY: MCS	CHECKED BY: JMM
DRAWN BY: MCS	
SCALE:	
<b>REFORESTATION PLAN OVERVIEW</b>	
<b>STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS BUCKEYE YARD</b> <small>CITY OF COLUMBUS, FRANKLIN COUNTY, OH</small>	
ORIGINAL ISSUE: 10/17/2022	
KHA PROJECT NO. 190118000	
SHEET NUMBER	
<b>EC4.1</b>	
NO.	BY
DATE	APR DATE
REVISIONS	







Drawing name: K:\CIB\_LDEA\190118000\_3dloc\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_Stream\Reforestation\REFORESTATION\_PLAN.dwg EC4.3 REFORESTATION PLAN Oct 17, 2022 5:50pm by: jll-ekabba  
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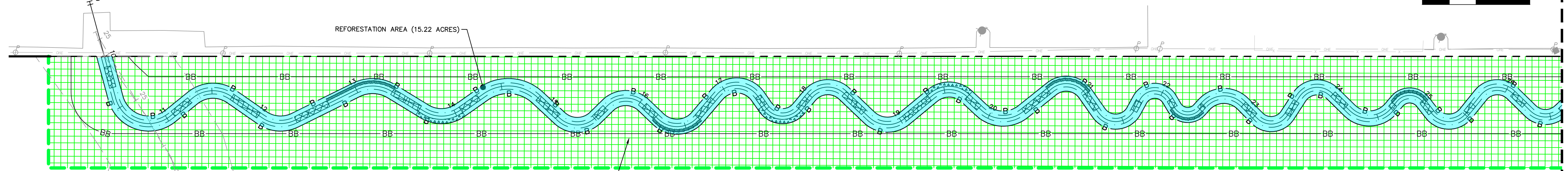
**LEGEND**

	EXISTING PROPERTY LINE
	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	PROPOSED RIGHT-OF-WAY
	PROPOSED STORM
	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	REFORESTATION AREA (15.22 AC.)

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<b>REFORESTATION PLAN</b>								
STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS <b>BUCKEYE YARD</b> CITY OF COLUMBUS, FRANKLIN COUNTY, OH								
ORIGINAL ISSUE: 10/17/2022								
KHA PROJECT NO. 190118000								
SHEET NUMBER <b>EC4.3</b>								
							REVISIONS	
							DATE	
							BY	
							APR DATE	
							APR BY	



Drawing name: K:\CIB\_LDEA\19018000\_3dloc\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_Stream\Reforestation\REFORESTATION\_PLAN.dwg EC4.4 REFORESTATION PLAN Oct 17, 2022 5:50pm by: bill-akabba  
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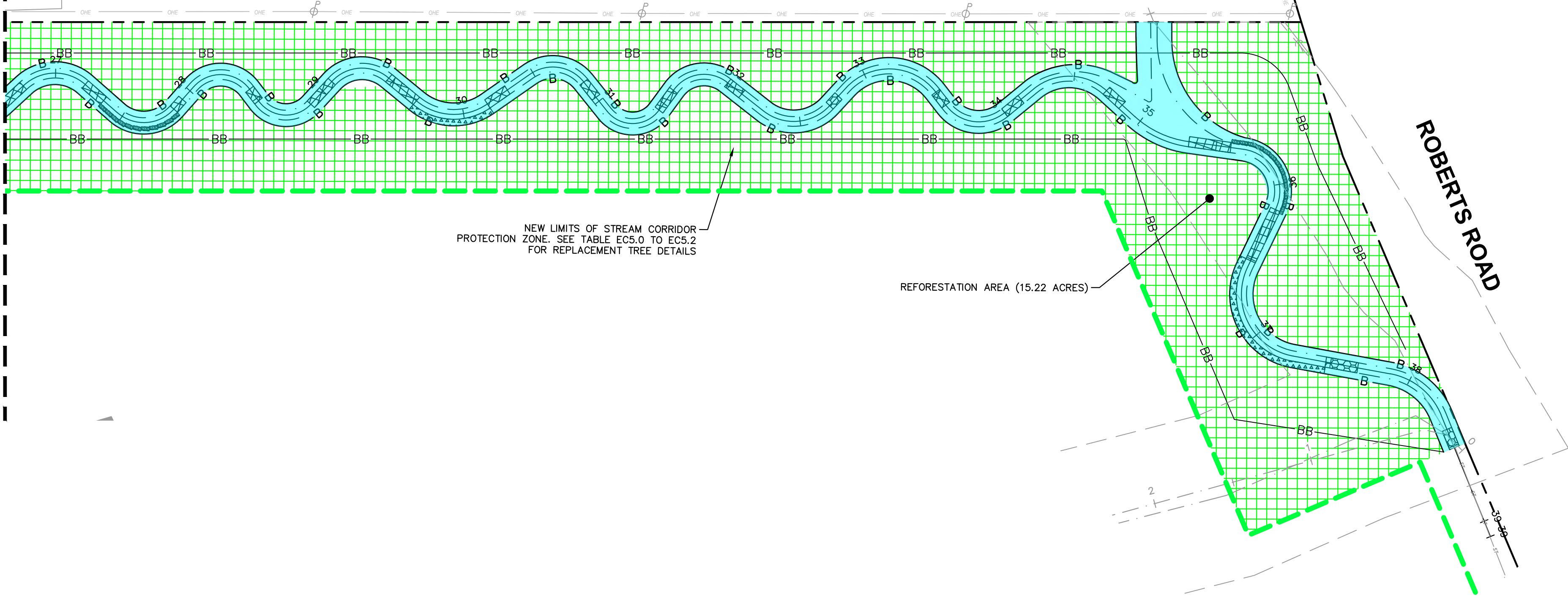


DIR ROBERTS DEARBORN INDUSTRIAL, L.L.C.  
 M-MANUFACTURING  
 PID: 560-241821-00  
 24.475 ACRES (ORIGINAL)  
 PARCEL 2

REFORESTATION AREA (15.22 ACRES)

NEW LIMITS OF STREAM CORRIDOR  
 PROTECTION ZONE. SEE TABLE ECS.0 TO ECS.2  
 FOR REPLACEMENT TREE DETAILS

MATCHLINE - SEE THIS SHEET



DIR ROBERTS DEARBORN INDUSTRIAL, L.L.C.  
 M-MANUFACTURING  
 PID: 560-241821-00  
 24.475 ACRES (ORIGINAL)  
 PARCEL 2

REFORESTATION AREA (15.22 ACRES)

NEW LIMITS OF STREAM CORRIDOR  
 PROTECTION ZONE. SEE TABLE ECS.0 TO ECS.2  
 FOR REPLACEMENT TREE DETAILS

ROBERT'S ROAD

MATCHLINE - SEE THIS SHEET

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING RIGHT OF WAY
- EXISTING EASEMENT
- EXISTING PAVEMENT
- EXISTING CENTERLINE
- ST --- ST --- ST --- ST --- EXISTING STORM
- SAN --- SAN --- SAN --- EXISTING SANITARY
- W --- W --- W --- W --- EXISTING WATER LINE
- G --- EXISTING GAS LINE
- OHE --- EXISTING OVERHEAD LINE
- ELE --- ELE --- ELE --- EXISTING ELECTRIC
- ST --- ST --- ST --- ST --- PROPOSED RIGHT-OF-WAY
- PROPOSED STORM
- PROPOSED STREAM CORRIDOR PROTECTION LIMITS
- REFORESTATION AREA (15.22 AC.)

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**REFORESTATION PLAN**

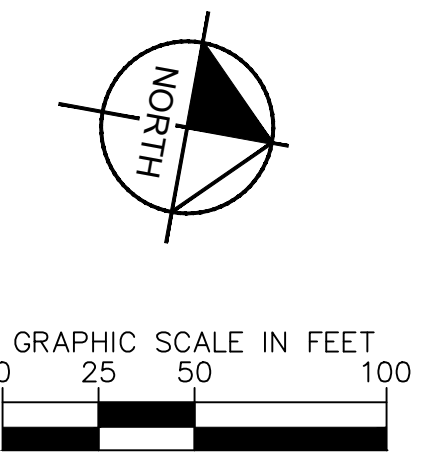
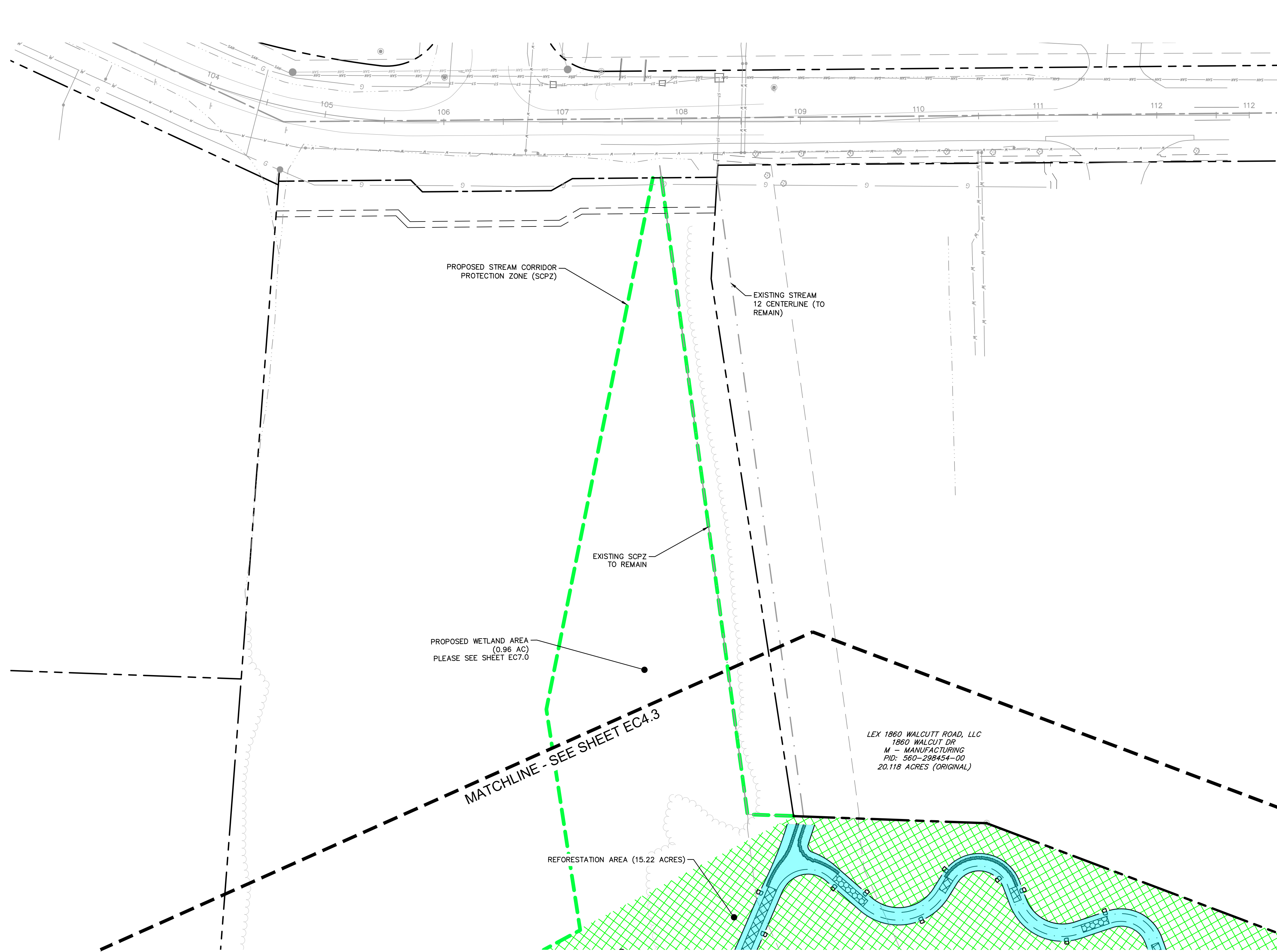
STREAM CORRIDOR PROTECTION ZONE  
 REFORESTATION PLANS  
**BUCKEYE YARD**  
 CITY OF COLUMBUS, FRANKLIN COUNTY, OH

ORIGINAL ISSUE:  
 10/17/2022  
 KHA PROJECT NO.  
 190118000  
 SHEET NUMBER  
**EC4.4**



Drawing name: K:\CIB\_LDEA\19018000\_3drec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamReforestation\REFORESTATION\_PLAN.dwg ECA.5 REFORESTATION PLAN Oct 17, 2022 5:50pm by: jll-ekabba

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**LEGEND**

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	EXISTING RIGHT OF WAY
	EXISTING EASEMENT
	EXISTING PAVEMENT
	EXISTING CENTERLINE
	EXISTING STORM
	EXISTING SANITARY
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING OVERHEAD LINE
	EXISTING ELECTRIC
	PROPOSED RIGHT-OF-WAY
	PROPOSED STORM
	PROPOSED STREAM CORRIDOR PROTECTION LIMITS
	REFORESTATION AREA (15.22 AC.)

No.	REVISIONS	DATE	BY	APR DATE	APR BY

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# REFORESTATION PLAN

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

ORIGINAL ISSUE:  
 10/17/2022  
 KHA PROJECT NO.  
 19018000  
 SHEET NUMBER  
**EC4.5**



Drawing name: K:\CBE\JDEA\19018000\_04ec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlotSheets\9\_StreamReforestation\REFORESTATION\_SUMMARY\_TABLE.dwg Layout1 Oct 17, 2022, 5:50pm By: bill.ekaba  
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ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
2004	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	7	2 TRUNK	728172.5	1791643.6	1
2009	<i>Salix ssp.</i>	WILLOW	GOOD	8	2 TRUNK	725559.2	1790975.9	1
2013	<i>Carya ovata</i>	HICKORY	GOOD	7	2 TRUNK	726471.3	1790864.8	1
2014	<i>Acer ssp.</i>	MAPLE	GOOD	8	2 TRUNK	725490.2	1790838	1
2015	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	8	2 TRUNK	725508.4	1790869.5	1
2017	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	21	2 TRUNK	726653.2	1790914.1	3
2023	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	8		728017.4	1791387.3	1
2024	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8	2 TRUNK	728266.7	1791814.4	1
2025	<i>Quercus rubra</i>	NORTHERN RED OAK	GOOD	6		728286.7	1791802.1	1
2026	<i>Quercus rubra</i>	NORTHERN RED OAK	GOOD	9		728286.8	1791802.8	1
2027	<i>Quercus rubra</i>	NORTHERN RED OAK	GOOD	13	2 TRUNK	728267.9	1791735.8	2
2030	<i>Quercus rubra</i>	NORTHERN RED OAK	GOOD	18	2 TRUNK	728564.6	1791941.4	2
2037	<i>Ulmus americana</i>	ELM	GOOD	8	3 TRUNK	729146.6	1792218	1
2038	<i>Ulmus americana</i>	ELM	GOOD	7	3 TRUNK	729147.4	1792218.6	1
2039	<i>Juglans nigra</i>	WALNUT	POOR	14	2 TRUNK	729051.4	1792175.3	2
2044	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12	2 TRUNK	728679.3	1792040.8	2
2045	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	15		729088	1792239.1	2
2046	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13	2 TRUNK	729183.7	1792272.4	2
2047	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14	2 TRUNK	729477.6	1792355.6	2
2048	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	18	2 TRUNK	729519.6	1792365.8	2
2051	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	16	2 TRUNK	729807.2	1792431.5	2
2052	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	17	2 TRUNK	729815.5	1792432.8	2
2053	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	6	2 TRUNK	729945.2	1792480.4	1
2054	<i>Acer ssp.</i>	MAPLE	GOOD	12	2 TRUNK	729946.8	1792447.3	2
2055	<i>Ulmus americana</i>	ELM	GOOD	9	2 TRUNK	729824.2	1792392.5	1
2056	<i>Ulmus americana</i>	ELM	GOOD	9	2 TRUNK	729819	1792415.4	1
2057	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	15		729955.8	1792434	2
2059	<i>Acer ssp.</i>	MAPLE	GOOD	10	2 TRUNK	729920.6	1792185.4	1
2060	<i>Salix ssp.</i>	WILLOW	POOR	9	4 TRUNK	729954.8	1792298.9	1
2061	<i>Salix ssp.</i>	WILLOW	POOR	7	4 TRUNK	729954.7	1792299.5	1
2062	<i>Salix ssp.</i>	WILLOW	POOR	6	4 TRUNK	729954.6	1792300.1	1
2063	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	12	2 TRUNK	723304	1791845.9	2
2065	<i>Juniperus virginiana</i>	EASTERN RED CEDAR	GOOD	4		723582	1791510.3	1
381037	<i>Acer ssp.</i>	MAPLE	GOOD	8		724005.9	1791146.4	1
381039	<i>Acer ssp.</i>	MAPLE	GOOD	6	3 TRUNK	724380.2	1790985	1
391001	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	20		728095.8	1791600.6	3
391005	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	7		728032.8	1791616	1
391009	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	31		728102.6	1791633.2	5
391010	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	31		728095.8	1791629.7	5
391011	<i>Ulmus americana</i>	ELM	GOOD	6		728113.6	1791629	1
391012	<i>Ulmus americana</i>	ELM	GOOD	6		728021	1791607.5	1
391016	<i>Ulmus americana</i>	ELM	POOR	6		728072.1	1791579.3	1
391017	<i>Ulmus americana</i>	ELM	GOOD	8		728079.2	1791569.1	1
391018	<i>Salix ssp.</i>	WILLOW	GOOD	12		728082.1	1791561.3	2
391019	<i>Ulmus americana</i>	ELM	POOR	11		728057.8	1791558	1
391020	<i>Ulmus americana</i>	ELM	GOOD	11		728061.1	1791547.7	1
391021	<i>Salix ssp.</i>	WILLOW	GOOD	13		728086.1	1791523.4	2
391022	<i>Catalpa speciosa</i>	CATALPA	GOOD	11		728081.9	1791514.7	1
391023	<i>Crataegus pennsylvanica</i>	HAWTHORN	GOOD	6		728106.6	1791521.4	1
391024	<i>Juglans nigra</i>	WALNUT	GOOD	13		728108.8	1791543	2
391026	<i>Ulmus americana</i>	ELM	GOOD	6		728122.2	1791552.2	1
391027	<i>Liriodendron tulipifera</i>	TULIP POPLAR	POOR	7		728126.1	1791548.7	1
391029	<i>Ulmus americana</i>	ELM	GOOD	6		728137.2	1791541.6	1
391031	<i>Ulmus americana</i>	ELM	POOR	6		728145.7	1791575.3	1
391032	<i>Liriodendron tulipifera</i>	TULIP POPLAR	POOR	7		728147	1791583.1	1
391033	<i>Ulmus americana</i>	ELM	GOOD	10		728139.7	1791593.3	1
391034	<i>Ulmus americana</i>	ELM	GOOD	6		728142.1	1791610.7	1
391035	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728132.1	1791623.3	1
391036	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728116.9	1791595	2
391040	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	8	2 TRUNK	728171.8	1791643.6	1
391041	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	6		728172.4	1791647.7	1
391042	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		728147.6	1791662.3	2
391043	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10	2 TRUNK	728155.1	1791663	1
391044	<i>Ulmus americana</i>	ELM	GOOD	6		728158.9	1791660.7	1
391045	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		728161.7	1791670.3	2
391046	<i>Ulmus americana</i>	ELM	GOOD	6		728171	1791664.6	1
391047	<i>Ulmus americana</i>	ELM	GOOD	8		728141.2	1791630.3	1
391048	<i>Ulmus americana</i>	ELM	GOOD	8		728153.1	1791639	1
391049	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	10		728178.7	1791663.2	1
391065	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	6		728084.6	1791492.3	1

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
391072	<i>Quercus rubra</i>	RED OAK	GOOD	15		728080	1791415.7	2
391073	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	12		728076.1	1791409.1	2
391074	<i>Salix ssp.</i>	WILLOW	LEANING	10		728056.1	1791410.2	1
391075	<i>Salix ssp.</i>	WILLOW	LEANING	7		728050.8	1791411.1	1
391076	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	12		728074.1	1791386.9	2
391077	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	12		728067.3	1791383.1	2
391078	<i>Ulmus americana</i>	ELM	GOOD	10		728096.3	1791389	1
391079	<i>Juglans nigra</i>	WALNUT	GOOD	16		728097.7	1791397.1	2
391080	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	15		728099.2	1791378.1	2
391081	<i>Ulmus americana</i>	ELM	GOOD	7		728114.5	1791385.9	1
391082	<i>Carya ovata</i>	HICKORY	GOOD	7		728109.6	1791373.9	1
391088	<i>Acer ssp.</i>	MAPLE	GOOD	9		728099.6	1791441.6	1
391101	<i>Ulmus americana</i>	ELM	GOOD	6		728105.5	1791286.6	1
391102	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	11		728089.9	1791283.9	1
391103	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	12		728090	1791289.2	2
391104	<i>Ulmus americana</i>	ELM	GOOD	12		728085.7	1791290.4	2
391105	<i>Gleditsia tricanthos</i>	HONEY LOCUST	GOOD	11		728095.4	1791310.7	1
391106	<i>Crataegus pennsylvanica</i>	HAWTHORN	GOOD	8		728111.4	1791318.3	1
391107	<i>Ulmus americana</i>	ELM	GOOD	12		728108.1	1791328.5	2
391109	<i>Ulmus americana</i>	ELM	GOOD	7		728105.2	1791353.9	1
401006	<i>Ulmus americana</i>	ELM	GOOD	6		724636.6	1790937.9	1
401007	<i>Acer ssp.</i>	MAPLE	GOOD	6	2 TRUNK	724672	1790941	1
401011	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	7		725018.2	1791014.8	1
401012	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	7		725058.7	1791013.1	1
401013	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	6		725396.6	1790982.9	1
401014	<i>Acer ssp.</i>	MAPLE	GOOD	7		725504.4	1790974.1	1
401015	<i>Salix ssp.</i>	WILLOW	GOOD	8		725562	1790960.4	1
401016	<i>Salix ssp.</i>	WILLOW	GOOD	8	2 TRUNK	725559.2	1790961.2	1
401020	<i>Acer ssp.</i>	MAPLE	GOOD	6		724675.3	1790939.6	1
401022	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	7		724546.3	1790908	1
401023	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	16		726282	1790896.4	2
401024	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	14		726244	1790895.2	2
401025	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	16		726190.6	1790905.6	2
401026	<i>Acer ssp.</i>	MAPLE	GOOD	6		726027.3	1790885.2	1
401027	<i>Acer ssp.</i>	MAPLE	GOOD	9		725682.6	1790959.1	1
401028	<i>Acer ssp.</i>	MAPLE	GOOD	9		725676.2	1790963.6	1
401029	<i>Acer ssp.</i>	MAPLE	GOOD	10		725648.2	1790962.5	1
401030	<i>Acer ssp.</i>	MAPLE	GOOD	6		725626.5	1790964.4	1
401031	<i>Acer ssp.</i>	MAPLE	GOOD	6		725619.6	1790916.6	1
401051	<i>Acer ssp.</i>	MAPLE	GOOD	9		725486.1	1790778.1	1
401052	<i>Carya ovata</i>	HICKORY	GOOD	9		726453.1	1790884.6	1
401053	<i>Carya ovata</i>	HICKORY	GOOD	9		726463.6	1790880.7	1
401054	<i>Carya ovata</i>	HICKORY	GOOD	9		726467.7	1790863.8	1
401055	<i>Carya ovata</i>	HICKORY	GOOD	7	2 TRUNK	726472	1790864.8	1
401056	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	6		726483.2	1790880.7	1
401057	<i>Carya ovata</i>	HICKORY	GOOD	6		726479.9	1790858	1
411001	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	15		725242	1790219.9	2
411002	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		725248.1	1790239.3	2
411003	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	6		725254.3	1790258.3	1
411004	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	7		725281.2	1790333.8	1
411005	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	7		725284.1	1790350.3	1
411008	<i>Acer ssp.</i>	MAPLE	POOR	6		725459.4	1790778.3	1
411009	<i>Acer ssp.</i>	MAPLE	GOOD	7		725460.7	1790781.9	1
411010	<i>Acer ssp.</i>	MAPLE	GOOD	6		725477.1	1790817.7	1
411011	<i>Acer ssp.</i>	MAPLE	GOOD	6	2 TRUNK	725490.2	1790838.7	1
411012	<i>Prunus ssp.</i>	BLACK CHERRY	GOOD	6	2 TRUNK	725508.4	1790870.2	1
411013	<i>Acer ssp.</i>	MAPLE	GOOD	10		725515.1	1790880.9	1
411018	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	7		726615.7	1790808.3	1
411020	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	11		726626.3	1790833.9	1
411022	<i>Juglans nigra</i>	WALNUT	GOOD	11		726637.9	1790839.8	1
411023	<i>Salix ssp.</i>	WILLOW	GOOD	11		726637.6	1790864.4	1
411025	<i>Acer ssp.</i>	MAPLE	GOOD	11		726639.7	1790868.5	1
411027	<i>Juglans nigra</i>	WALNUT	GOOD	10		726611.4	1790863	1
411035	<i>Maclura pomifera</i>	OSAGE ORANGE	GOOD	9		726667.7	1790915.4	1
411036	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	13		726653.2	1790913.5	2
411037	<i>Juglans nigra</i>	WALNUT	GOOD	6				



Drawing name: K:\CIB\JDEA\190118000\_4ebc\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlantSheets\9\_Stream\Reforestation\REForestation\_SUMMARY\_TABLE.dwg EC5 STREAM CORRIDOR PROTECTION ZONE REFORESTATION SUMMARY TABLE Oct 17, 2022 5:50pm by: bill.lebo  
 This document, together with the concepts and designs presented herein, is prepared for the specific purpose and client for which it was prepared. None of and no part of the information and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
421109	<i>Quercus rubra</i>	RED OAK	GOOD	13		728270.8	1791778.4	2
421111	<i>Quercus rubra</i>	RED OAK	GOOD	11		728270.6	1791787.1	1
421112	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	17		728255.9	1791800.4	2
421113	<i>Ulmus americana</i>	ELM	GOOD	11		728238.2	1791789.4	1
451001	<i>Carya ovata</i>	SHAG BARK HICKORY	GOOD	8		728231.6	1791751.9	1
451002	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		728228.9	1791761.4	2
451003	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	22		728226.8	1791765	3
451004	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	19		728220.4	1791763.9	3
451005	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	22		728213.4	1791767	3
451006	<i>Juglans nigra</i>	WALNUT	GOOD	9		728212.9	1791742.1	1
451007	<i>Ulmus americana</i>	ELM	GOOD	6		728208.1	1791742.3	1
451008	<i>Ulmus americana</i>	ELM	GOOD	11		728206	1791734.1	1
451010	<i>Ulmus americana</i>	ELM	GOOD	7		728193.4	1791719	1
451011	<i>Crataegus pennsylvanica</i>	HAWTHORN	GOOD	6		728198.5	1791706.3	1
451012	<i>Ulmus americana</i>	ELM	GOOD	6		728192.4	1791700.2	1
451013	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	7		728188.5	1791687.6	1
451022	<i>Carya ovata</i>	SHAG BARK HICKORY	GOOD	11		728385.9	1791871.5	1
451023	<i>Carya ovata</i>	HICKORY	GOOD	7		728418.2	1791880	1
451024	<i>Carya ovata</i>	HICKORY	GOOD	7		728415.6	1791892.8	1
451025	<i>Carya ovata</i>	HICKORY	GOOD	11		728433.2	1791887.3	1
451026	<i>Quercus alba</i>	WHITE OAK	GOOD	11		728435.7	1791882.6	1
451027	<i>Carya ovata</i>	HICKORY	GOOD	6		728426.2	1791882.9	1
451028	<i>Ulmus americana</i>	ELM	GOOD	7		728454.6	1791882.5	1
451029	<i>Acer ssp.</i>	MAPLE	GOOD	11		728457.2	1791884	1
451036	<i>Carya ovata</i>	SHAG BARK HICKORY	GOOD	10		728528	1791927.8	1
451037	<i>Carya ovata</i>	SHAG BARK HICKORY	GOOD	6		728521	1791943.3	1
451038	<i>Carya ovata</i>	SHAG BARK HICKORY	GOOD	11		728541.8	1791934.8	1
451039	<i>Quercus rubra</i>	RED OAK	GOOD	18		728564.6	1791942.3	2
451040	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728552.1	1791965.4	2
451041	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		728590.3	1791985.1	1
451042	<i>Juglans nigra</i>	WALNUT	GOOD	6		728597.3	1791979.1	1
451048	<i>Quercus rubra</i>	RED OAK	GOOD	12		728670.5	1792003.6	2
451049	<i>Carya ovata</i>	HICKORY	GOOD	6		728668	1792000.9	1
451054	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728688	1792033.8	1
451055	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	6		728674	1792019	1
451056	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728682.3	1792031	1
451057	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728743.8	1792024.5	2
451061	<i>Carya ovata</i>	HICKORY	GOOD	8		728766.6	1792025.5	1
451063	<i>Juglans nigra</i>	WALNUT	GOOD	12		728761	1792043.3	2
451064	<i>Juglans nigra</i>	WALNUT	GOOD	11		728780.7	1792042.7	1
451066	<i>Ulmus americana</i>	ELM	GOOD	8		728779.4	1792066.6	1
451070	<i>Prunus serotina</i>	BLACK CHERRY	GOOD	10		728806	1792081.9	1
451071	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728819.7	1792091.2	1
451072	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		728832	1792094.8	1
451073	<i>Salix ssp.</i>	WILLOW	FAIR	6		729225.5	1792275.2	1
451074	<i>Ulmus americana</i>	ELM	GOOD	6		729229.4	1792270.8	1
451075	<i>Ulmus americana</i>	ELM	GOOD	11		729233.3	1792257	1
451080	<i>Ulmus americana</i>	ELM	GOOD	8		729195.2	1792250.5	1
451081	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8		729211.5	1792261.6	1
451082	<i>Populus deltoides</i>	EASTERN COTTONWOOD	FAIR	6		729176.8	1792241	1
451083	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	16		729171.5	1792249.7	2
451084	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		729166.2	1792250.1	1
451085	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		729160.4	1792247.1	2
451087	<i>Ulmus americana</i>	ELM	GOOD	10		729146.6	1792218.6	1
451088	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		729130.1	1792232.3	1
451089	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		729125.3	1792230.8	2
451090	<i>Ulmus americana</i>	ELM	GOOD	9		729103	1792207.8	1
451091	<i>Acer ssp.</i>	MAPLE	GOOD	6		729091.2	1792221.8	1
451092	<i>Ulmus americana</i>	ELM	GOOD	7		729089.2	1792225.7	1
451093	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		729068.2	1792214.8	2
451094	<i>Salix ssp.</i>	WILLOW	GOOD	10		729051	1792206.6	1
451095	<i>Fagus grandifolia</i>	BEECH	GOOD	6		729041.6	1792198.1	1
451096	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	9		729034.1	1792191.6	1
451097	<i>Juglans nigra</i>	WALNUT	POOR	12		729050.5	1792175.3	2
451107	<i>Ulmus americana</i>	ELM	GOOD	11		728932.2	1792128.1	1
451108	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	18		728939.7	1792148.4	2
451109	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		728946.2	1792152.6	1
451110	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728953.7	1792156.6	2
451111	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		728963.2	1792156.3	1
451112	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	9		728979.5	1792166.1	1

ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
451113	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		728999.6	1792179.7	2
451114	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728994.3	1792178	2
451116	<i>Ulmus americana</i>	ELM	GOOD	13		728915.4	1792133.8	2
451117	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728912.5	1792136.6	1
451118	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728910.8	1792133.9	1
451119	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728892.7	1792130.9	1
451120	<i>Ulmus americana</i>	ELM	GOOD	10		728899.3	1792105.1	1
451121	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	6		728871.9	1792119.5	1
451122	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	16		728867.9	1792115.2	2
451123	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8		728850.7	1792110.3	1
451124	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8		728844.2	1792103.7	1
451125	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		728841.9	1792101.8	2
461000	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	9		729247.5	1792273.4	1
461001	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	19		729263.8	1792278.9	3
461002	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	21		729269.4	1792277.2	3
461009	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		729325.4	1792293.9	2
461010	<i>Ulmus americana</i>	ELM	GOOD	9		729345.1	1792299.1	1
461011	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	16		729364.2	1792299.7	2
461012	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	7		729396.6	1792315.5	1
461013	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8		729400.4	1792316.8	1
461014	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		729421.8	1792317.2	2
461015	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		729451.6	1792328.4	2
461016	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		729465.9	1792330.3	2
461017	<i>Ulmus americana</i>	ELM	GOOD	12		729475.4	1792327	2
461020	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		729482.9	1792332.9	2
461021	<i>Ulmus americana</i>	ELM	GOOD	7		729499.2	1792327.2	1
461022	<i>Ulmus americana</i>	ELM	FAIR	7		729530.1	1792342	1
461023	<i>Liriodendron tulipifera</i>	TULIP POPLAR	GOOD	10		729535	1792332.6	1
461024	<i>Morus ssp.</i>	MULBERRY	GOOD	10		729540.7	1792334.4	1
461025	<i>Ulmus americana</i>	ELM	GOOD	8		729531.9	1792324.3	1
461027	<i>Ulmus americana</i>	ELM	POOR	6		729539.5	1792345.8	1
461028	<i>Ulmus americana</i>	ELM	POOR	6		729556.8	1792343.7	1
461029	<i>Ulmus americana</i>	ELM	POOR	11		729579.7	1792355.7	1
461031	<i>Ulmus americana</i>	ELM	POOR	7		729595.9	1792362	1
461032	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	16		729593.2	1792365.8	2
461034	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	6		728663.9	1792035.9	1
461035	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		728675.2	1792039.7	2
461036	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	6		728678.7	1792040.6	1
461037	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		728688	1792047.2	2
461038	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	7		728698.2	1792050.5	1
461039	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		728698.2	1792052.4	1
461041	<i>Ulmus americana</i>	ELM	GOOD	6		728724.1	1792063	1
461042	<i>Ulmus americana</i>	ELM	GOOD	6		728727.5	1792069.9	1
461043	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728732.1	1792067.1	2
461044	<i>Populus deltoides</i>	EASTERN COTTONWOOD	FAIR	13		728736.3	1792069.6	2
461045	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728782.8	1792093.4	1
461046	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	13		728790.2	1792096.3	2
461047	<i>Populus deltoides</i>	EASTERN COTTONWOOD	FAIR	12		728792.3	1792094.2	2
461048	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		728797.7	1792098.8	2
461049	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728849.1	1792122.2	1
461050	<i>Ulmus americana</i>	ELM	POOR	9		728864.9	1792132.9	1
461051	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	16		728876.1	1792135.4	2
461052	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		728912.4	1792152.2	2
461053	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	10		728931.2	1792161	1
461054	<i>Ulmus americana</i>	ELM	GOOD	8		728936.1	1792163.7	1
461055	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		729000.9	1792193.7	1
461056	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	17		729004.9	1792194.4	2
461057	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	12		729020.2	1792201	2
461058	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	8		729018.4	1792203.5	1
461059	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	11		729026	1792206.8	1
461060	<i>Populus deltoides</i>	EASTERN COTTONWOOD	POOR	8		729048.7	1792215.8	1
461061	<i>Ulmus americana</i>	ELM	GOOD	8		729082.8	1792235.4	1
461062	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14		729087.5	1792239	2
461063	<i>Populus deltoides</i>	EASTERN COTTONWOOD	FAIR	16		729135	1792252.2	2
461065	<i>Populus deltoides</i>	EASTERN COTTONWOOD	GOOD	14				








Drawing name: K:\CBE\_LDEA\190118000\_3drec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamRestoration\REFORESTATION\_SUMMARY\_TABLE.dwg REFORESTATION\_SUMMARY\_TABLE Oct 17, 2022, 5:50pm by: bill-keebba  
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ID	LATIN NAME	COMMON NAME	CONDITION	D.B.H. (INCHES)	NOTES	NORTHING	EASTING	REPLACEMENT QUANTITY
Tree 87	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	7		728536.5	1791778.8	1
Tree 88	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	8		728518.1	1791784.4	1
Tree 89	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	9		728508	1791795.2	1
Tree 90	<i>Caryan ovata</i>	HICKORY	GOOD	7		728500.2	1791816.6	1
Tree 91	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	11		728526.8	1791829.8	1
Tree 92	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	7		728538.4	1791823.1	1
Tree 93	<i>Ulmus americana</i>	AMERICAN ELM	GOOD	11		728528.6	1791865.2	1
<b>TOTAL</b>								<b>691</b>

\*Locations are approximate and based on sub-meter accuracy GPS provided by CESO Survey, dated 02/18/2022.  
 \*The diameter at breast height value shown in the table above for multi-trunk tree(s) is the average diameter of the multiple 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 warranted 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.

No.	DATE	BY	APR	DATE	BY	APR	BY
REVISIONS							
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SCALE:	DESIGNED BY: MCS	DRAWN BY: MCS					
STREAM CORRIDOR PROTECTION ZONE PROTECTION PLANS <b>BUCKEYE YARD</b> CITY OF COLUMBUS, FRANKLIN COUNTY, OH							
STREAM CORRIDOR PROTECTION ZONE REFORESTATION PLANS <b>BUCKEYE YARD</b> CITY OF COLUMBUS, FRANKLIN COUNTY, OH							
<b>STREAM CORRIDOR PROTECTION ZONE                  PROTECTION ZONE                  REFORESTATION                  SUMMARY TABLE</b>							
ORIGINAL ISSUE: 10/17/2022							
KHA PROJECT NO. 190118000							
SHEET NUMBER							
<b>EC5.3</b>							











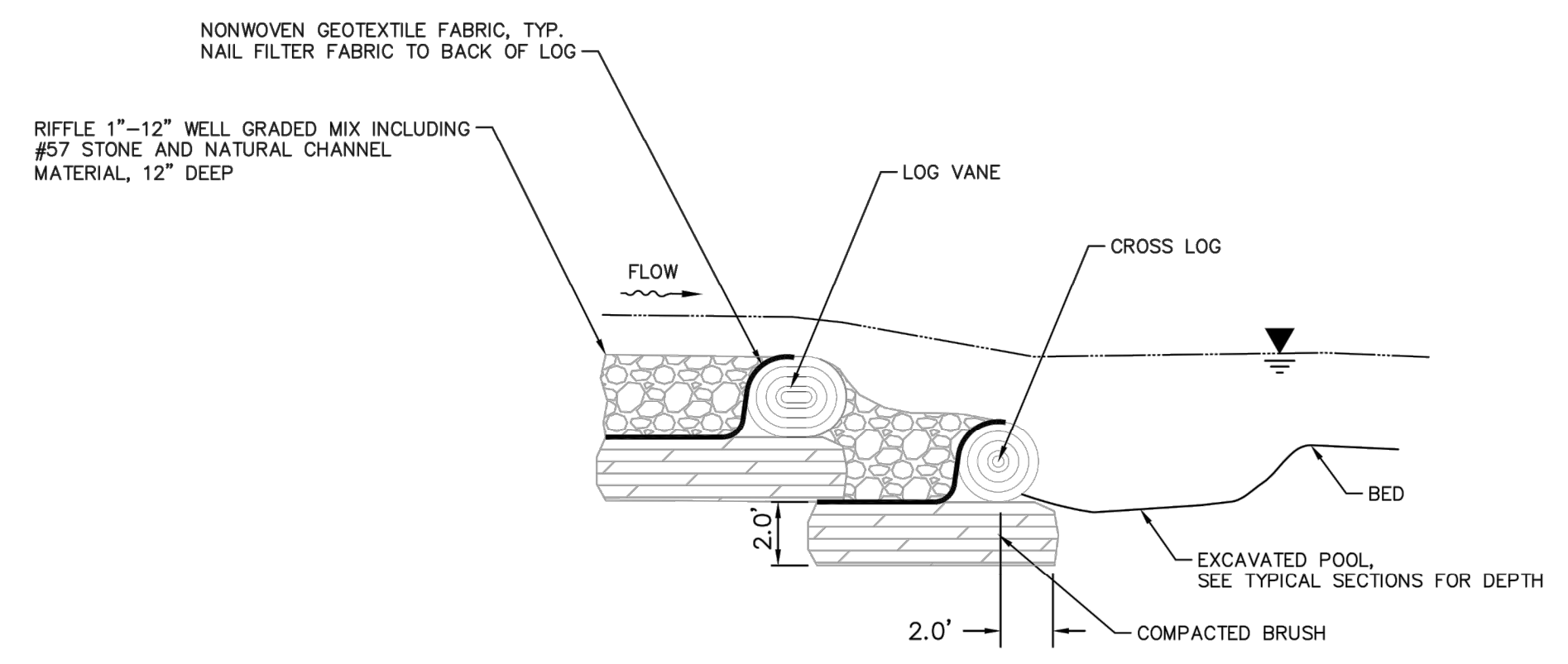








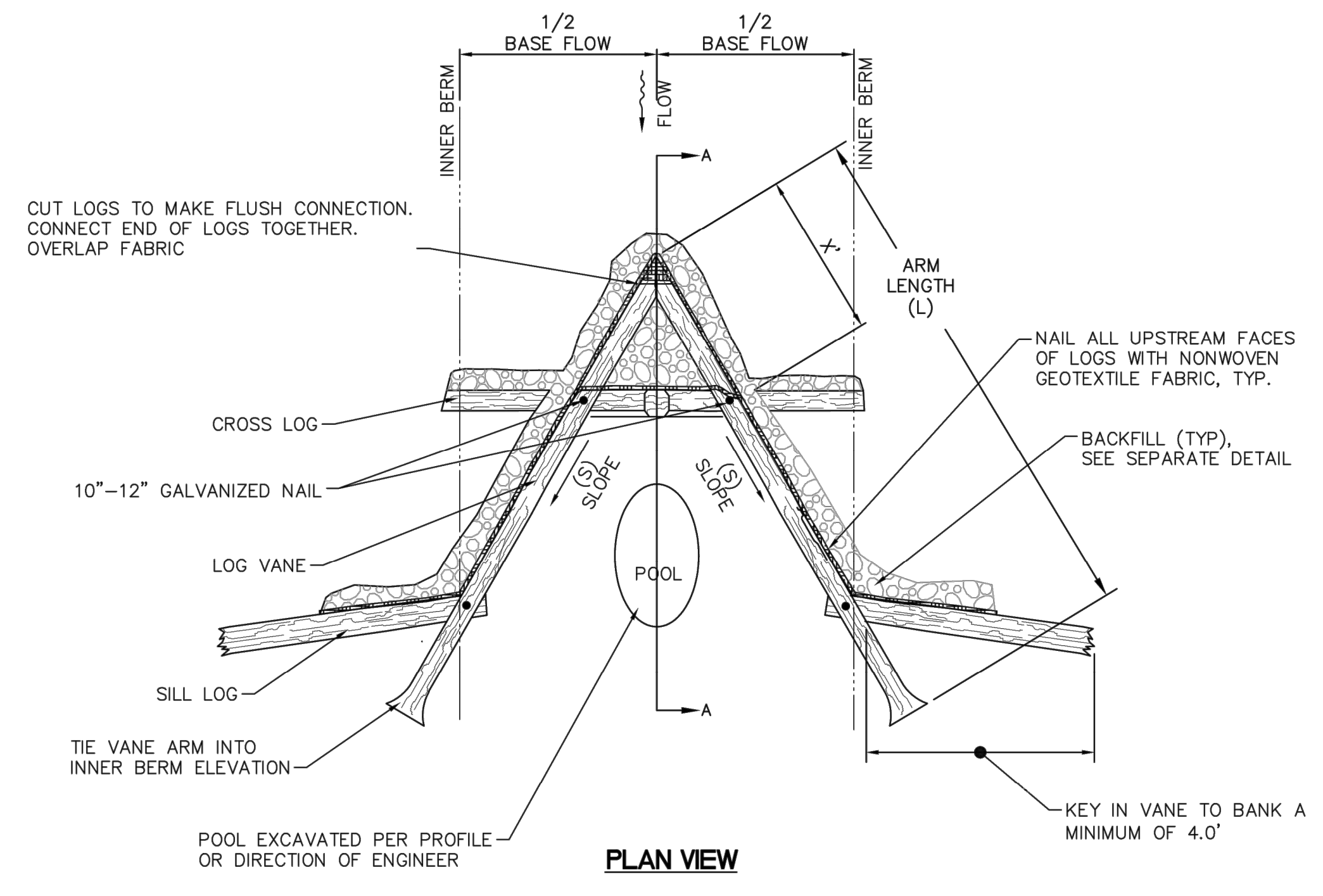
Drawing name: K:\CIB\_LDEA\190118000\_3drec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamRestoration\DETAILS.dwg    DETAILS    Oct 17, 2022, 5:50pm    by: bill.skebb  
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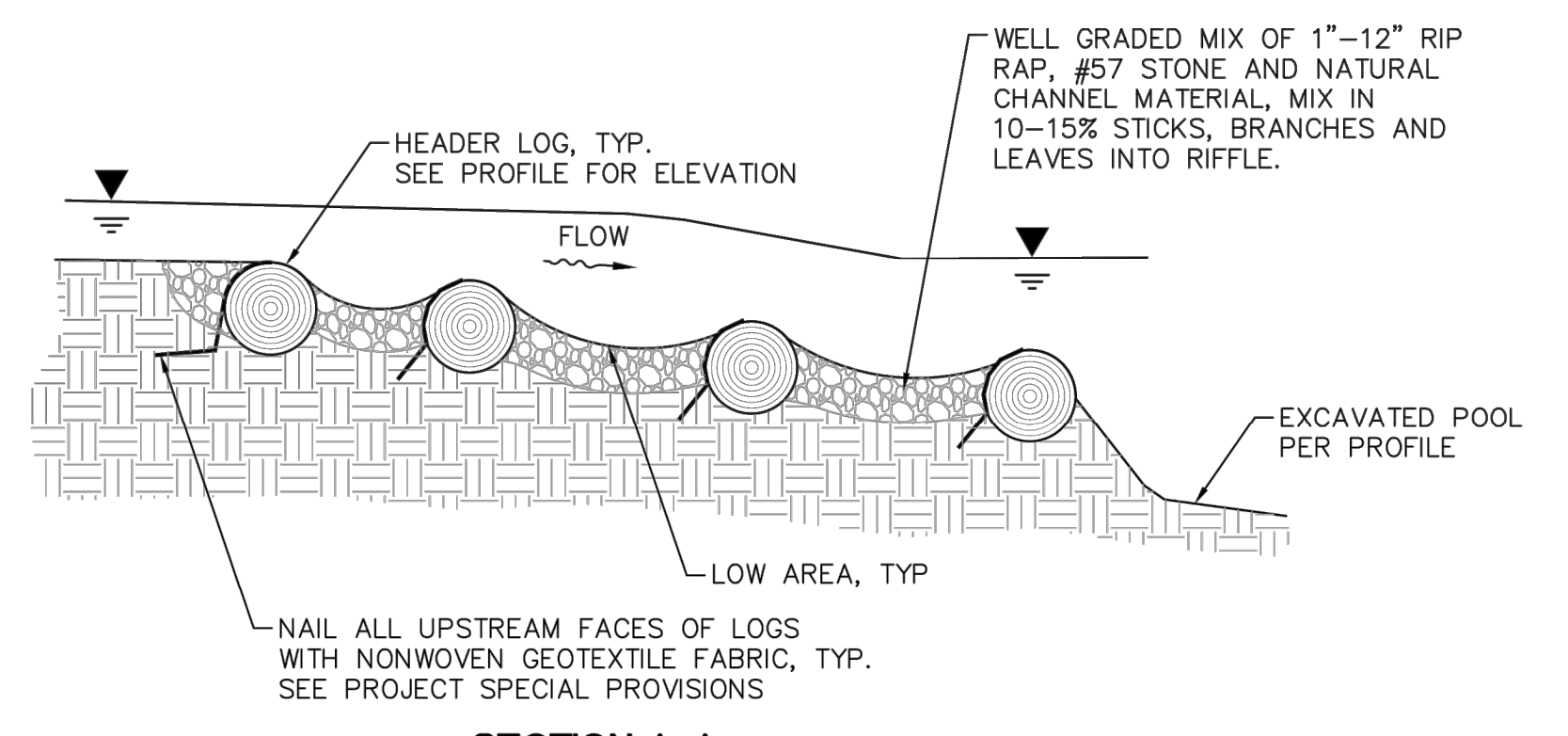
**SECTION A-A**

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

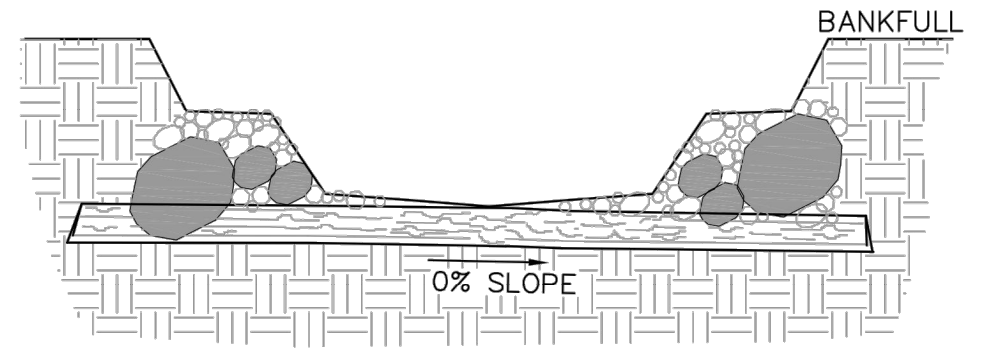
- NOTES:
1. DEEPEST PART OF POOL TO BE IN LINE WITH WHERE VANE ARM TIES INTO THE BANK.
  2. BACKFILL MIX TO BE USED TO REDUCE VOIDS BETWEEN LOGS.
  3. ALL LOGS TO BE HARDWOOD SPECIES, 8"-10" DIAMETER MINIMUM.



**LOG CROSS VANE**  
NOT TO SCALE

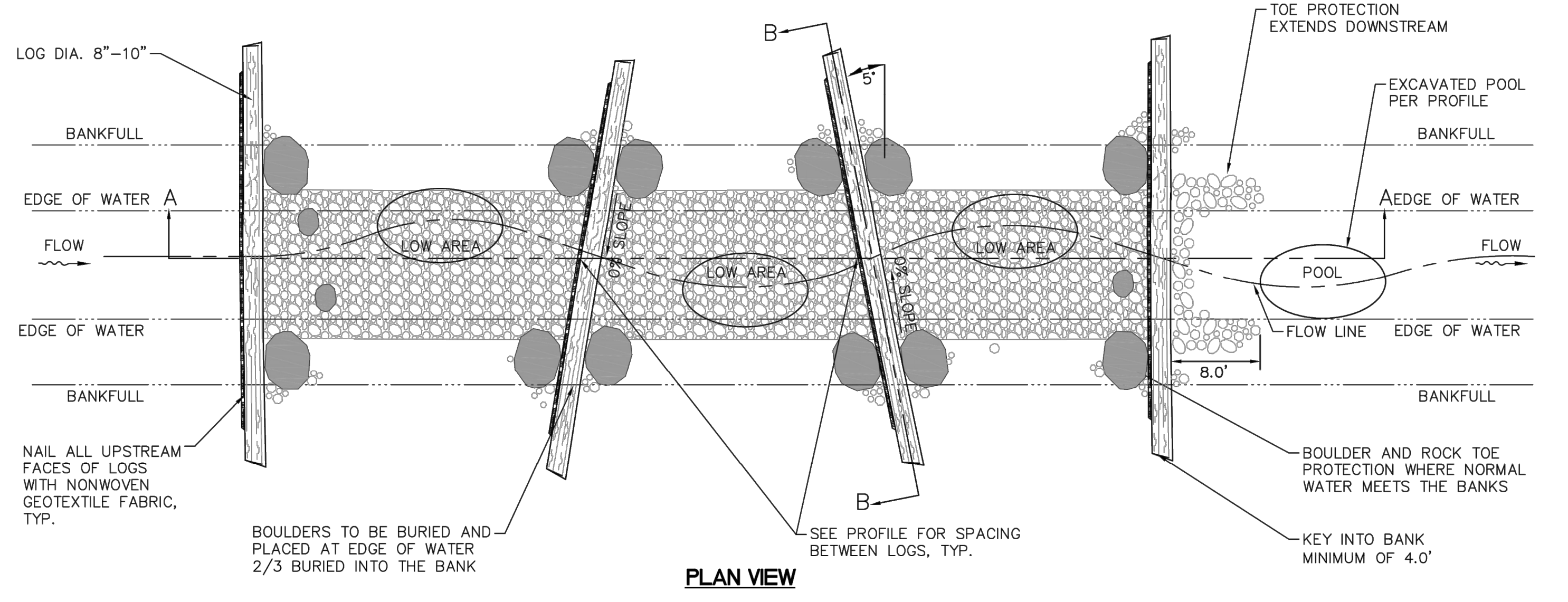


**SECTION A-A**



**SECTION B-B**

- NOTES:
1. PLACE FABRIC ON THE UPSTREAM SIDE OF THE MOST UPSTREAM LOG SILL IN THE CONSTRUCTED RIFFLE.
  2. BOULDERS SHALL BE USED TO ANCHOR LOGS IF NEEDED.
  3. 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.



**PLAN VIEW**

**LOG AND ROCK RIFFLE**  
NOT TO SCALE

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SCALE:    DESIGNED BY: MCS    DRAWN BY: MCS    CHECKED BY: JMM  
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 COLUMBUS, OH 43235  
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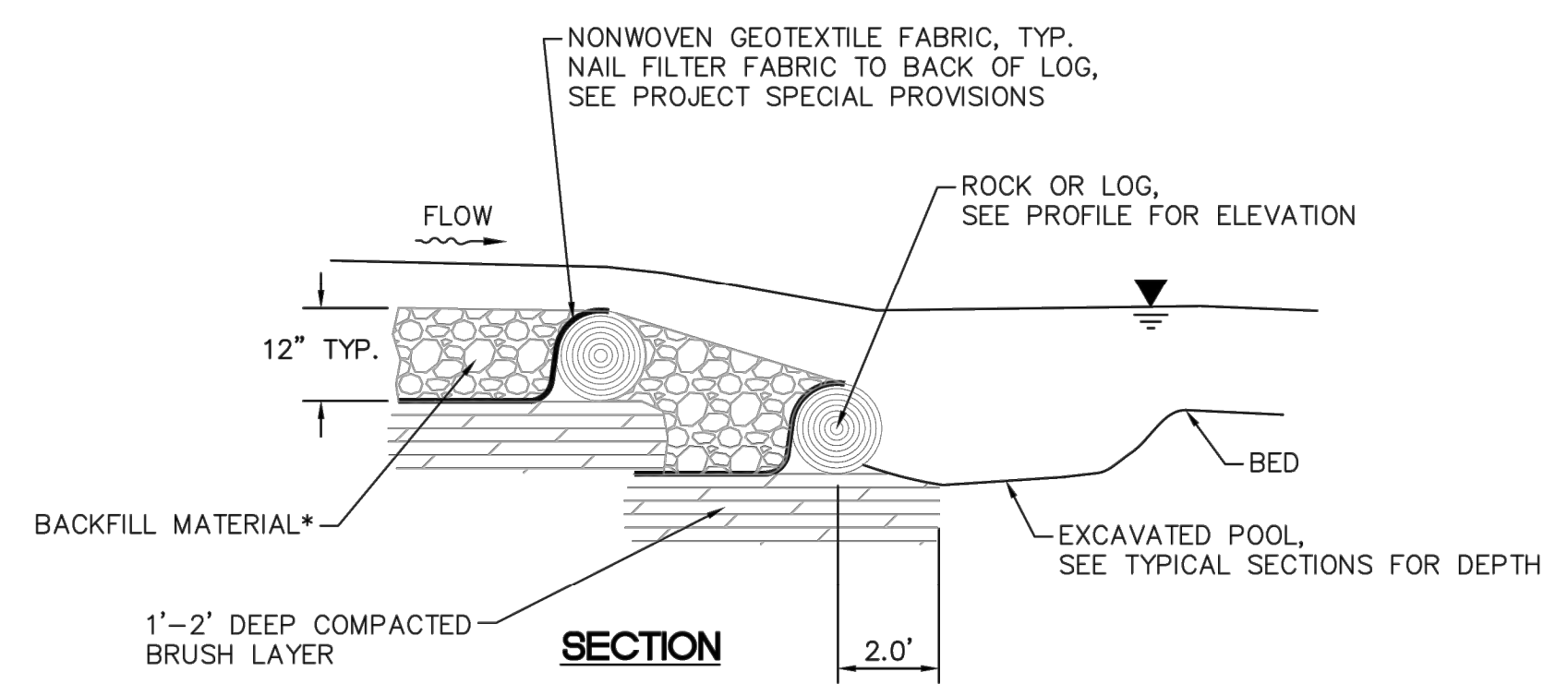
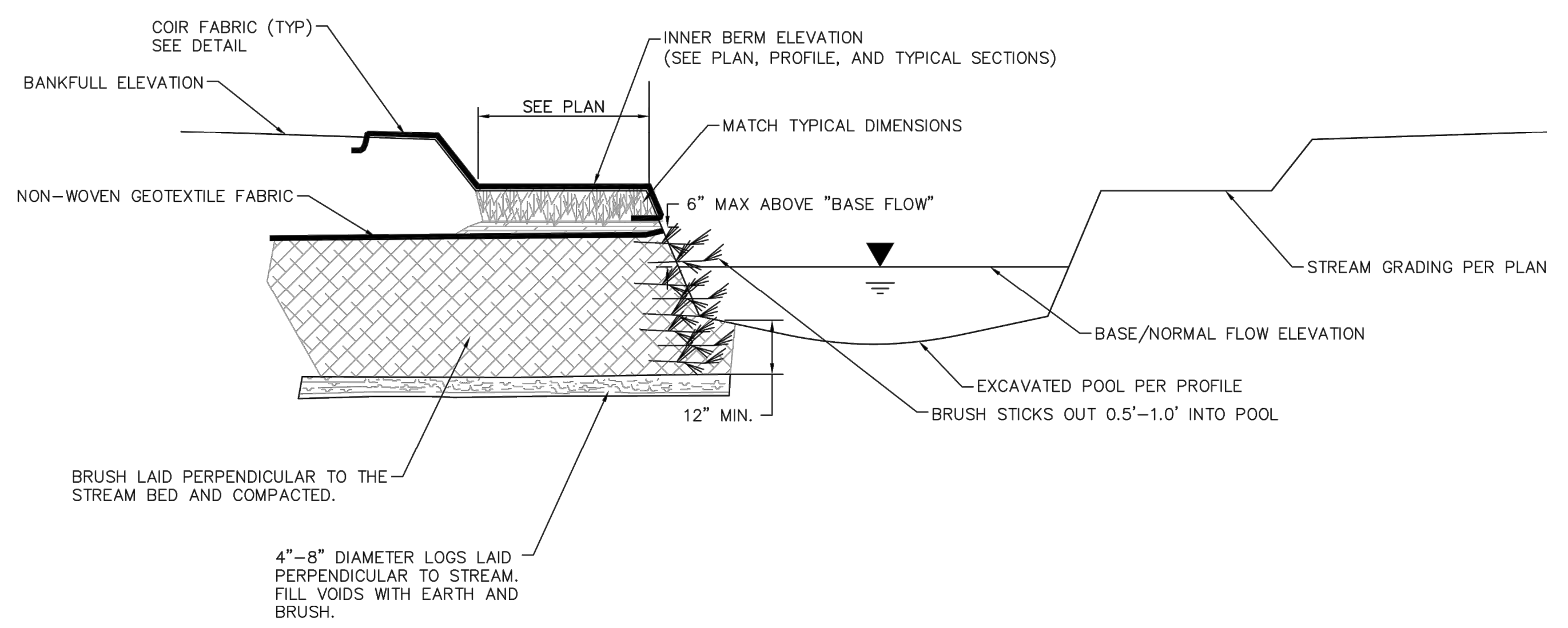
**DETAILS**

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  
**EC6.0**



Drawing name: K:\CIB\LDEA\190118000\_3dec\_Buckeye\_Yard\_Columbus\_OH\_2\_Design\CAD\PlanSheets\9\_StreamRestoration\DETAILS.dwg Layout (2) Oct 17, 2022 5:50pm by: bill.alebo  
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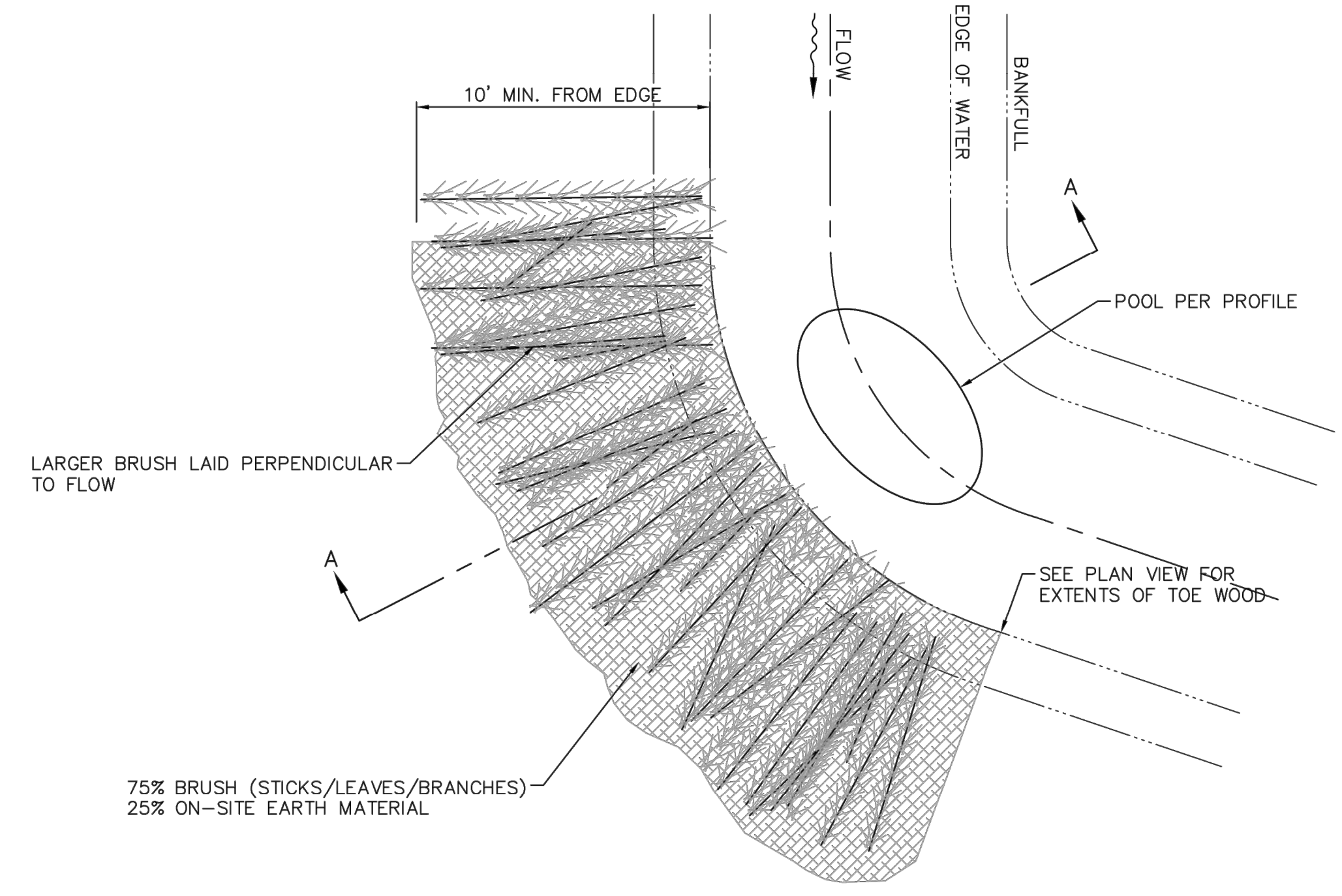
**\*BACKFILL MATERIAL (WELL GRADED MIX)**

1"-12" RIP RAP	75%
ON-SITE COBBLE AND GRAVEL	10%
#57 STONE	10%
MULCH (FROM ON-SITE)	5%

% IS MEASURED BY VOLUME

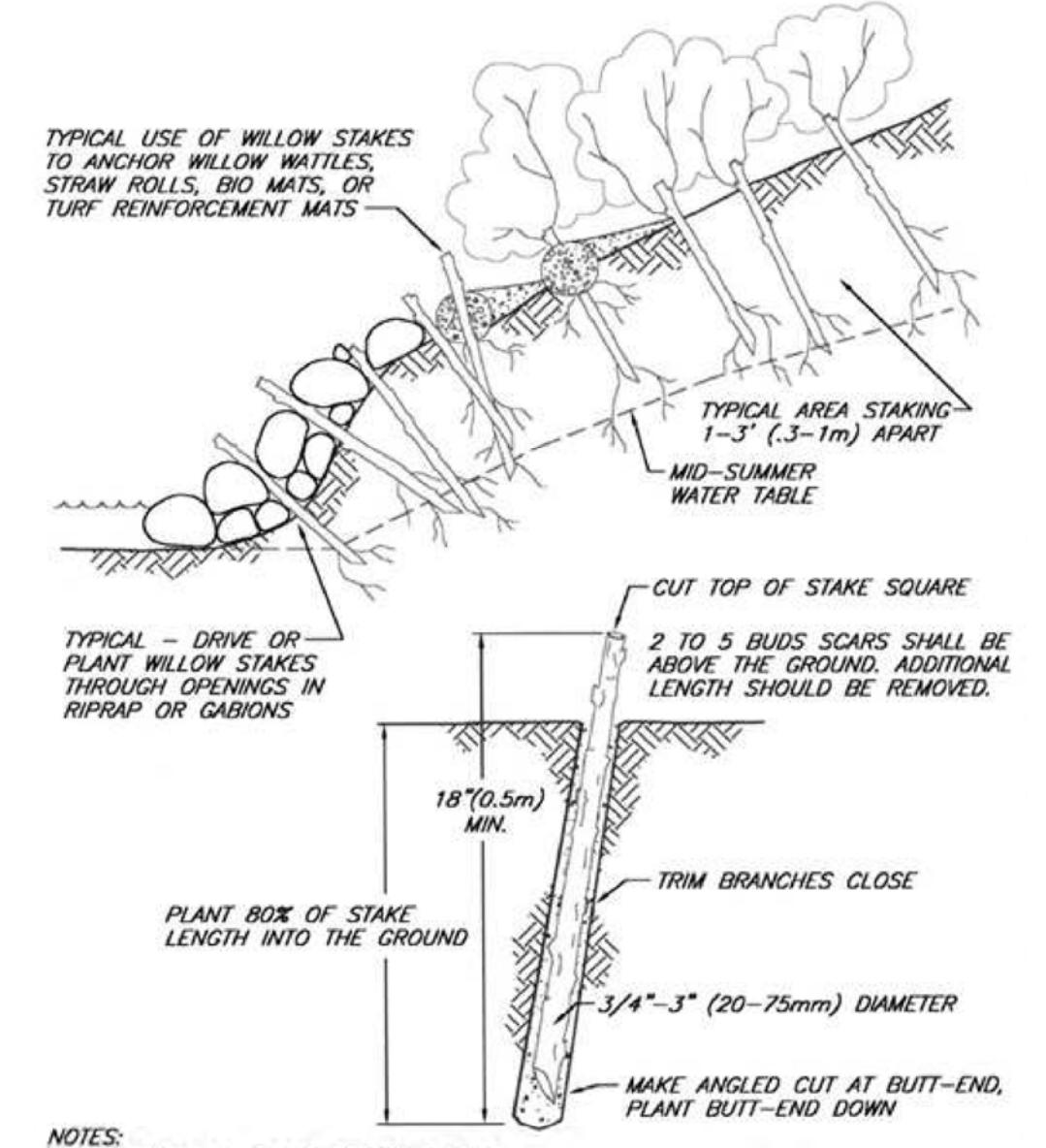
\*BRUSH LAYER TO BE LAID PERPENDICULAR TO FLOW

**LOG STRUCTURE BACKFILL DETAIL**  
NOT TO SCALE



**TOE WOOD**  
NOT TO SCALE

- NOTE:**
- BRUSH SHALL BE A VARIETY OF DIAMETERS AND SHALL BE LAID GENERALLY PERPENDICULAR TO FLOW AND COMPACTED BY DIRT.
  - FIRST LAYER OF BRUSH SHALL BE A BED OF 3" LIMBS/BRUSH SET 18" MIN. BELOW THE BED.
  - LAYERS ABOVE 1st LAYER SHALL BE 75% BRUSH OF A VARIETY OF SIZES WITH 25% ON SITE MATERIAL FILLING VOIDS.
  - BRUSH BROUGHT UP IN LIFTS.
  - GRADING ABOVE THE TOE WOOD PER THE TYPICAL SECTION AND/OR GRADING PLAN.



- NOTES:**
- HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
  - USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST 1 YEAR OLD.
  - MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION. USE A PLOT BAR IN FIRM SOILS.
  - SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.
  - TAMP THE SOIL AROUND THE STAKE.

**LIVE STAKING**  
NOT TO SCALE

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 COLUMBUS, OH 43235  
 PHONE: 614-472-8646  
 WWW.KIMLEY-HORN.COM  
 DESIGNED BY: MCS  
 DRAWN BY: MCS  
 CHECKED BY: JMM

**DETAILS**

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

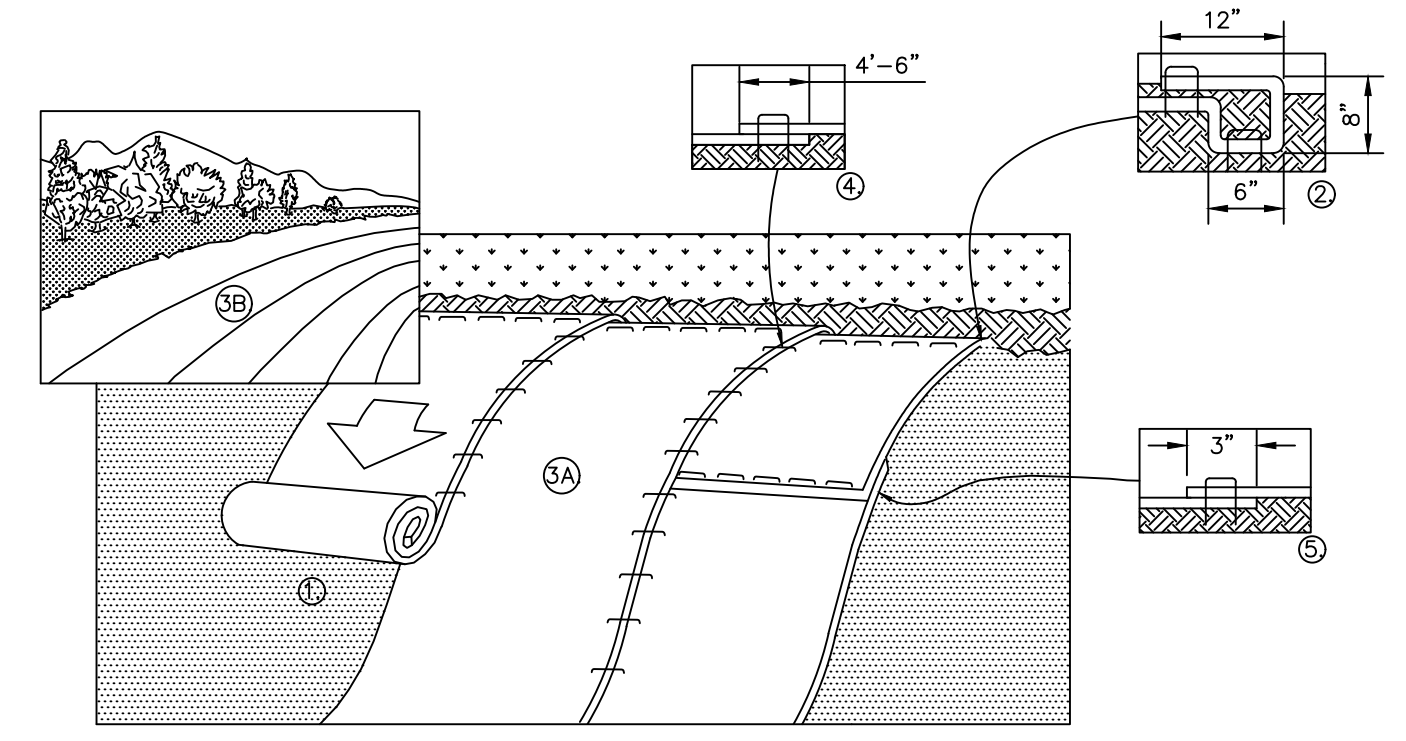
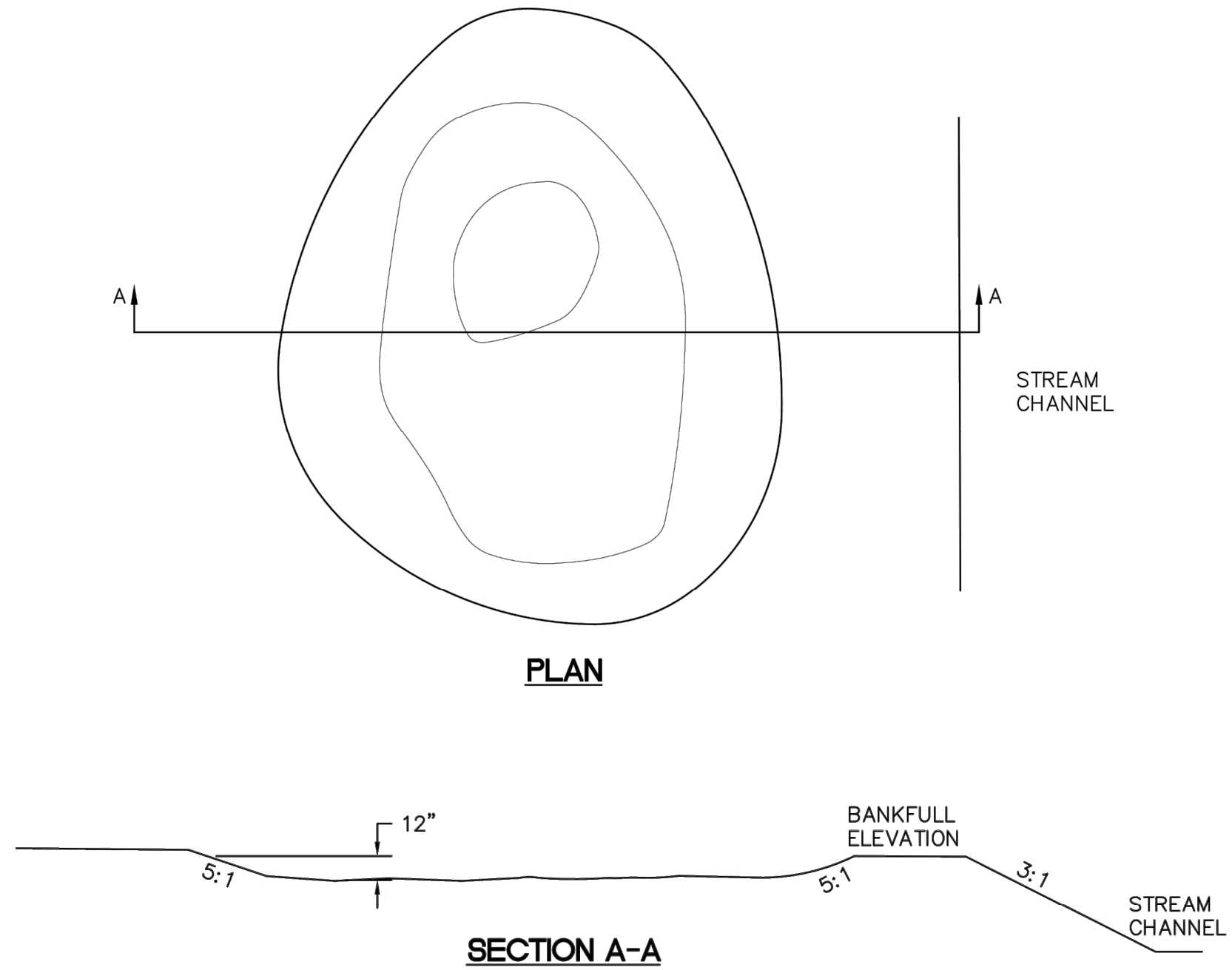
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1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND 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.
3. 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 MANUFACTURER'S 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 PREVIOUSLY INSTALLED BLANKET.
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.

- NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
  2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.
  3. PERVIOUS LAND WITH SLOPES RUNNING GREATER THAN OR EQUAL TO 4:1 SHALL CONTAIN SLOPE STABILIZATION BLANKET.
  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:

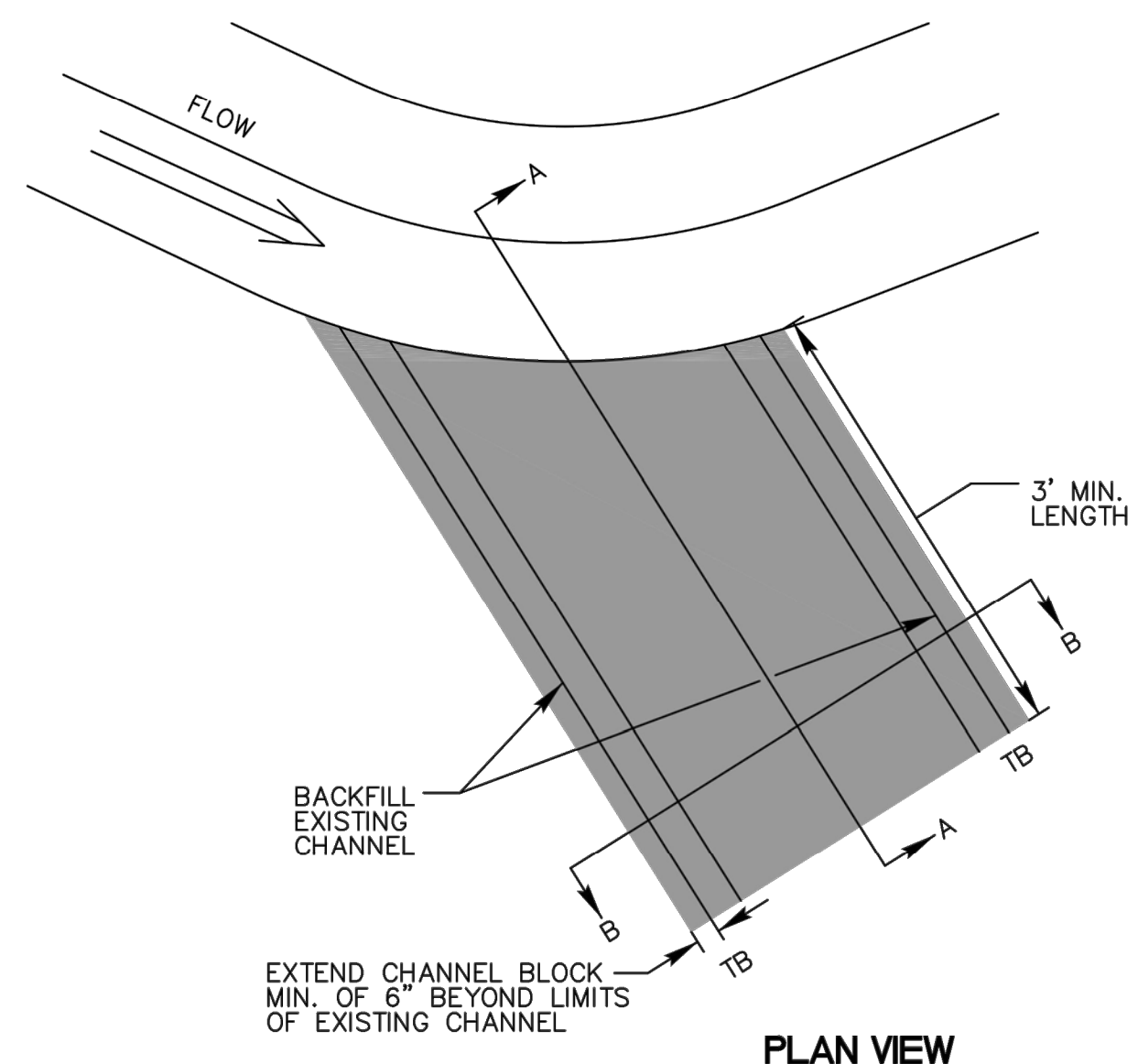
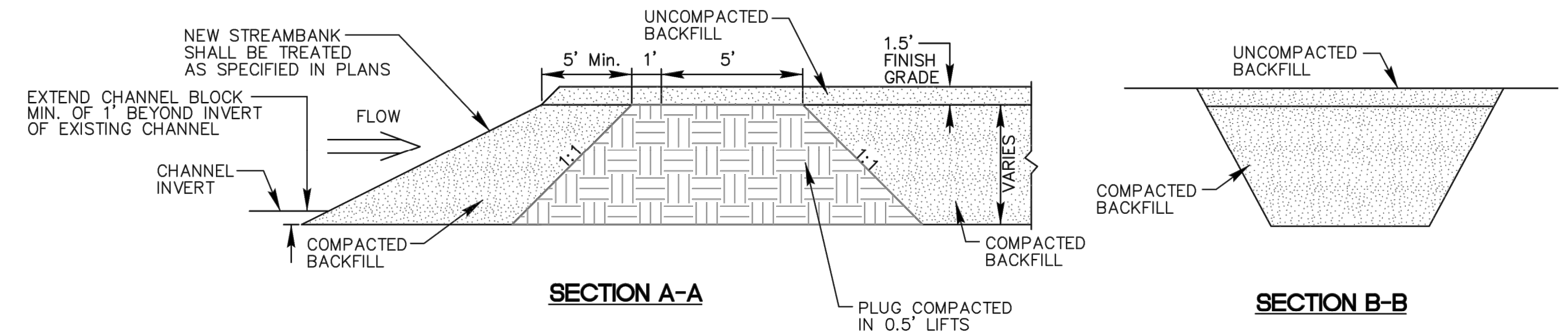
MATERIAL	MAXIMUM LENGTH OF PROTECTION
SRAW	10-12 MONTHS
STRAW/COCONUT	24 MONTHS
COCONUT	36 MONTHS
EXCELSIOR	36 MONTHS

**TREE PLANTING DETAIL**  
NOT TO SCALE

**VERNAL POOL DETAIL**  
NOT TO SCALE

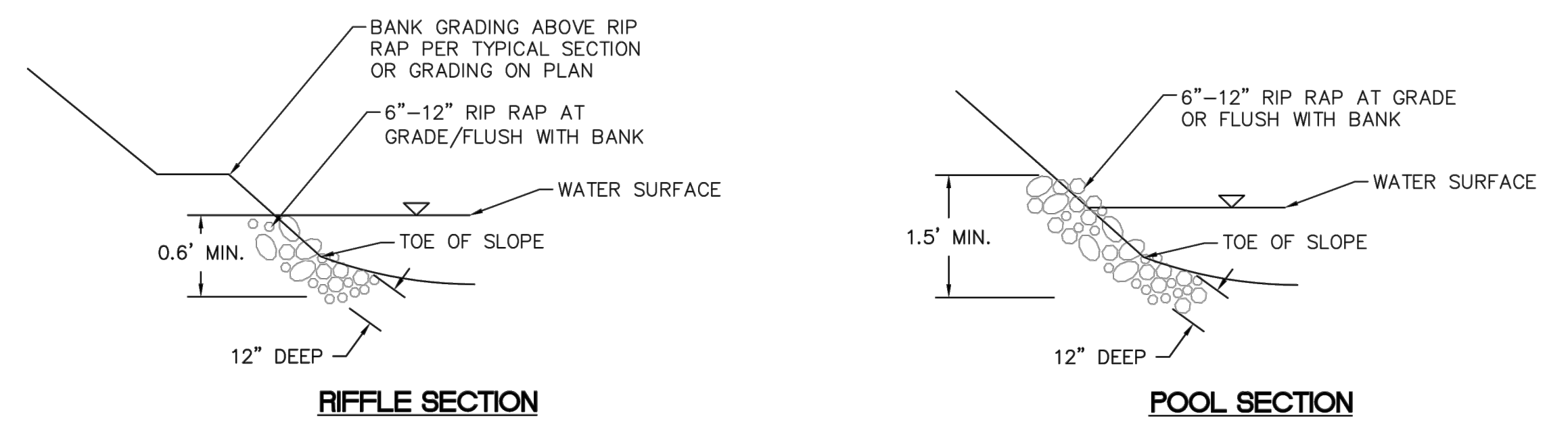
NOTE:  
FOR SIZE AND SHAPE SEE PLAN VIEWS.

**EROSION CONTROL BLANKET**  
NOT TO SCALE



- NOTES:
1. BOTTOM OF BLOCK SHOULD BE A MINIMUM OF 1' BELOW THE INVERT OF THE EXISTING CHANNEL.
  2. COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.

**CHANNEL BLOCK**  
NOT TO SCALE



**ROCK TOE PROTECTION**  
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