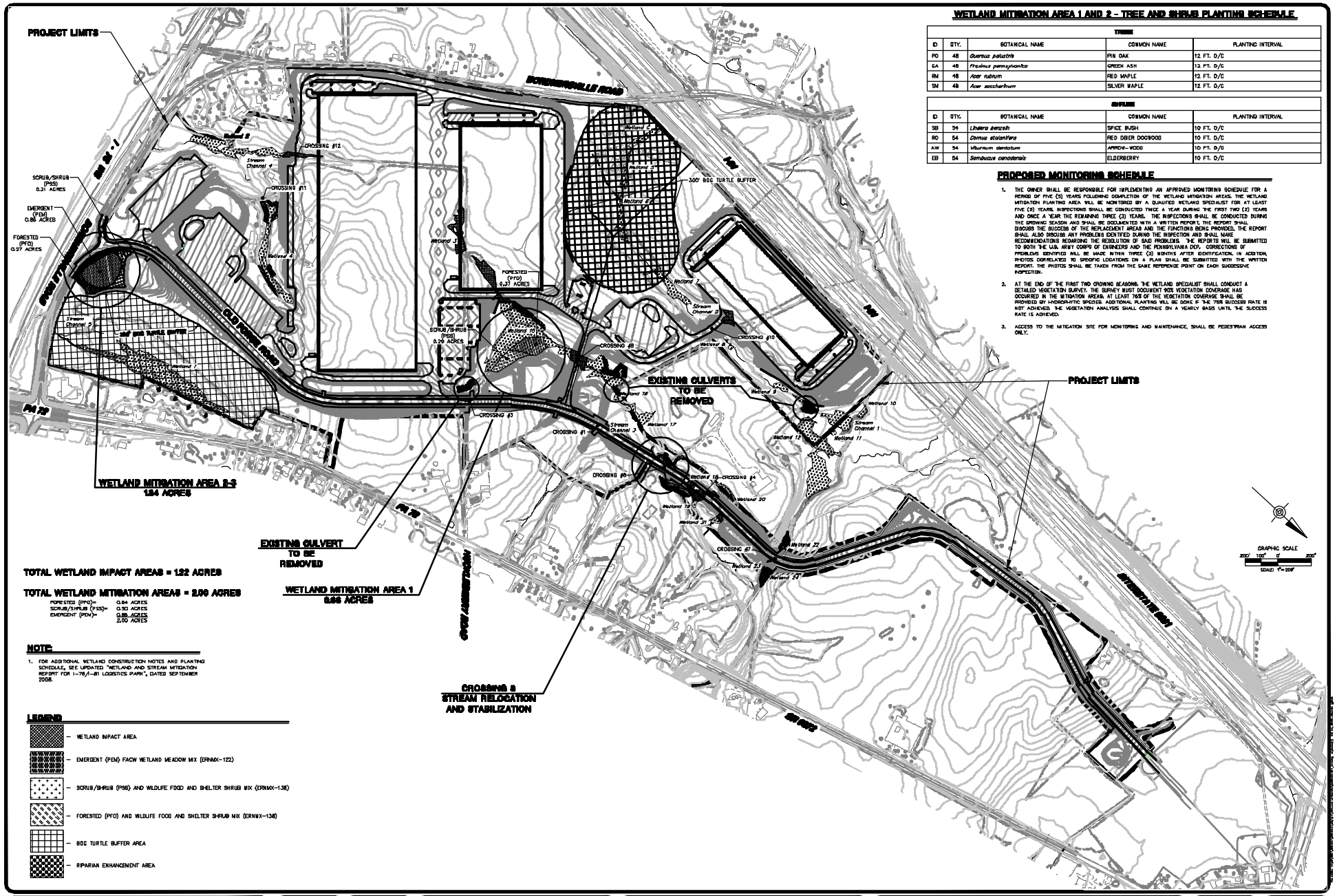

TOTAL WETLAND IMPACT AREAS = 1.22 ACRES

TOTAL WETLAND MITIGATION AREAS = 2.50 ACRES

FORESTED (PFO)=	0.64 ACRES
SCRUB/SHRUB (PSS)=	0.32 ACRES
EMERGENT (PEM)=	0.86 ACRES
	2.00 ACRES

NOTE:

1. FOR ADDITIONAL WETLAND CONSTRUCTION NOTES AND PLANTING SCHEDULE, SEE UPDATED "WETLAND AND STREAM MITIGATION REPORT FOR I-78/I-81 LOGISTICS PARK", DATED SEPTEMBER 2008.

LEGEND

- WETLAND IMPACT AREA
- EMERGENT (PEM) FACW WETLAND MEADOW MIX (ERNMX-122)
- SCRUB/SHRUB (PSS) AND WILDLIFE FOOD AND SHELTER SHRUB MIX (ERNMX-138)
- FORESTED (PFO) AND WILDLIFE FOOD AND SHELTER SHRUB MIX (ERNMX-138)
- BOC TURTLE BUFFER AREA
- RIPARIAN ENHANCEMENT AREA

WETLAND MITIGATION AREA 1 AND 2 - TREE AND SHRUB PLANTING SCHEDULE

TREES				
ID	QTY.	BOTANICAL NAME	COMMON NAME	PLANTING INTERVAL
PO	48	*Quercus palustris*	PIN OAK	12 FT. O/C
GA	48	*Fraxinus pennsylvanica*	GREEN ASH	12 FT. O/C
RM	48	*Acer rubrum*	RED MAPLE	12 FT. O/C
SM	48	*Acer saccharinum*	SILVER MAPLE	12 FT. O/C

SHRUBS				
ID	QTY.	BOTANICAL NAME	COMMON NAME	PLANTING INTERVAL
SB	54	*Lindera benzoin*	SPICE BUSH	10 FT. O/C
RO	54	*Cornus stolonifera*	RED OSIER DOGWOOD	10 FT. O/C
AW	54	*Viburnum dentatum*	ARROW-WOOD	10 FT. O/C
EB	54	*Sambucus canadensis*	ELDERBERRY	10 FT. O/C

PROPOSED MONITORING SCHEDULE

1. THE OWNER SHALL BE RESPONSIBLE FOR IMPLEMENTING AN APPROVED MONITORING SCHEDULE FOR A PERIOD OF FIVE (5) YEARS FOLLOWING COMPLETION OF THE WETLAND MITIGATION AREAS. THE WETLAND MITIGATION PLANTING AREA WILL BE MONITORED BY A QUALIFIED WETLAND SPECIALIST FOR AT LEAST FIVE (5) YEARS. INSPECTIONS SHALL BE CONDUCTED TWICE A YEAR DURING THE FIRST TWO (2) YEARS AND ONCE A YEAR THE REMAINING THREE (3) YEARS. THE INSPECTIONS SHALL BE CONDUCTED DURING THE GROWING SEASON AND SHALL BE DOCUMENTED WITH A WRITTEN REPORT. THE REPORT SHALL DISCUSS THE SUCCESS OF THE REPLACEMENT AREAS AND THE FUNCTIONS BEING PROVIDED. THE REPORT SHALL ALSO DISCUSS ANY PROBLEMS IDENTIFIED DURING THE INSPECTION AND SHALL MAKE RECOMMENDATIONS REGARDING THE RESOLUTION OF SAID PROBLEMS. THE REPORTS WILL BE SUBMITTED TO BOTH THE U.S. ARMY CORPS OF ENGINEERS AND THE PENNSYLVANIA DEP. CORRECTIONS OF PROBLEMS IDENTIFIED WILL BE MADE WITHIN THREE (3) MONTHS AFTER IDENTIFICATION. IN ADDITION, PHOTOS CORRELATED TO SPECIFIC LOCATIONS ON A PLAN SHALL BE SUBMITTED WITH THE WRITTEN REPORT. THE PHOTOS SHALL BE TAKEN FROM THE SAME REFERENCE POINT ON EACH SUCCESSIVE INSPECTION.
2. AT THE END OF THE FIRST TWO GROWING SEASONS, THE WETLAND SPECIALIST SHALL CONDUCT A DETAILED VEGETATION SURVEY. THE SURVEY MUST DOCUMENT 80% VEGETATION COVERAGE HAS OCCURRED IN THE MITIGATION AREAS. AT LEAST 75% OF THE VEGETATION COVERAGE SHALL BE PROVIDED BY HYDROPHYTIC SPECIES. ADDITIONAL PLANTING WILL BE DONE IF THE 75% SUCCESS RATE IS NOT ACHIEVED. THE VEGETATION ANALYSIS SHALL CONTINUE ON A YEARLY BASIS UNTIL THE SUCCESS RATE IS ACHIEVED.
3. ACCESS TO THE MITIGATION SITE FOR MONITORING AND MAINTENANCE, SHALL BE PEDESTRIAN ACCESS ONLY.

NO.	REVISION	DATE	BY
1	PER DEP TECHNICAL DEFICIENCY LETTER DATED 06-17-08	10-03-08	MK

HRG Engineering & Environmental Services

LICKDALE ASSOCIATES LP
C/O VISION PROPERTIES LLC
633 WEST GERMANTOWN PIKE, SUITE 104
PLYMOUTH MEETING, PA 19462

WETLAND MITIGATION PLAN
FOR
I-78/I-81 LOGISTICS PARK

LINCOLN TOWNSHIP — LEHIGH COUNTY — PENNSYLVANIA

FIELD MGR. - BWR
DRAWN- GJ
CHKD- MK
DESIGNED- GJ
SCALE- 1" = 200'
DATE- 04-18-08

DRAWING NO. A-1
SHEET NO. 1 OF 3
PROJECT 3081.002