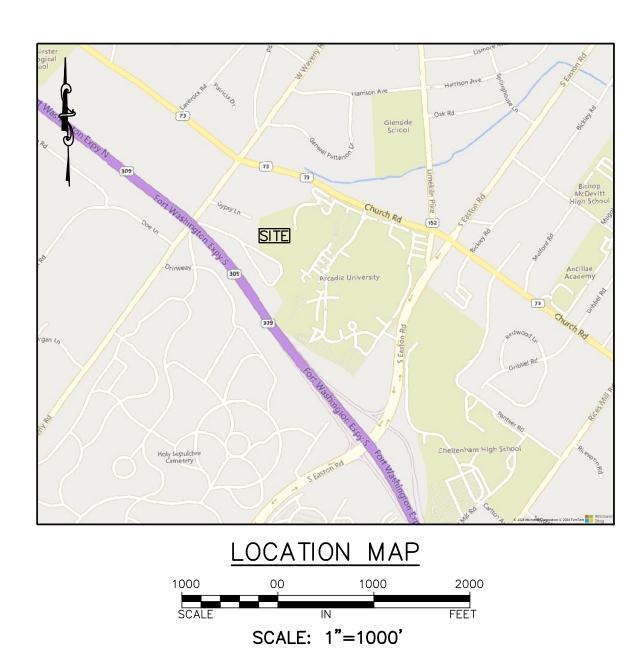
FOR ARCADIA UNIVERSITY ARCADIA INDOOR HITTING FACILITY

DRAWING LIST

DRAWING NO.	SHEET NO.	DRAWING NAME
C0.00	SHEET 1 OF 23	COVER SHEET
C1.00	SHEET 2 OF 23	GENERAL NOTES
C2.00	SHEET 3 OF 23	CAMPUS RECORD PLAN
C2.10	SHEET 4 OF 23	SITE CONSERVATION PLAN
C3.00	SHEET 5 OF 23	EXISTING CONDITIONS PLAN
C3.10	SHEET 6 OF 23	TREE INVENTORY PLAN
C3.20	SHEET 7 OF 23	DEMOLITION PLAN
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C5.00	SHEET 9 OF 23	SITE GRADING AND DRAINAGE PLAN
C6.00	SHEET 10 OF 23	SITE UTILITY PLAN
C6.10	SHEET 11 OF 23	SITE UTILITY DETAILS
C7.00	SHEET 12 OF 23	EROSION AND SEDIMENT CONTROL PLAN
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C8.00	SHEET 15 OF 23	PRE-DEVELOPMENT DRAINAGE AREA PLAN
C8.10	SHEET 16 OF 23	POST-DEVELOPMENT DRAINAGE AREA PLAN
C9.00	SHEET 17 OF 23	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
C9.10	SHEET 18 OF 23	POST CONSTRUCTION STORMWATER MANAGEMENT NOTES
C9.20	SHEET 19 OF 23	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS
C10.00	SHEET 20 OF 23	LANDSCAPE PLAN
C10.10	SHEET 21 OF 23	TREE REMOVAL PLAN
C10.20	SHEET 22 OF 23	LANDSCAPE NOTES AND DETAILS
C11.00	SHEET 23 OF 23	CONSTRUCTION DETAILS

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

CHELTENHAM TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA





OWNER/APPLICANT INFO:

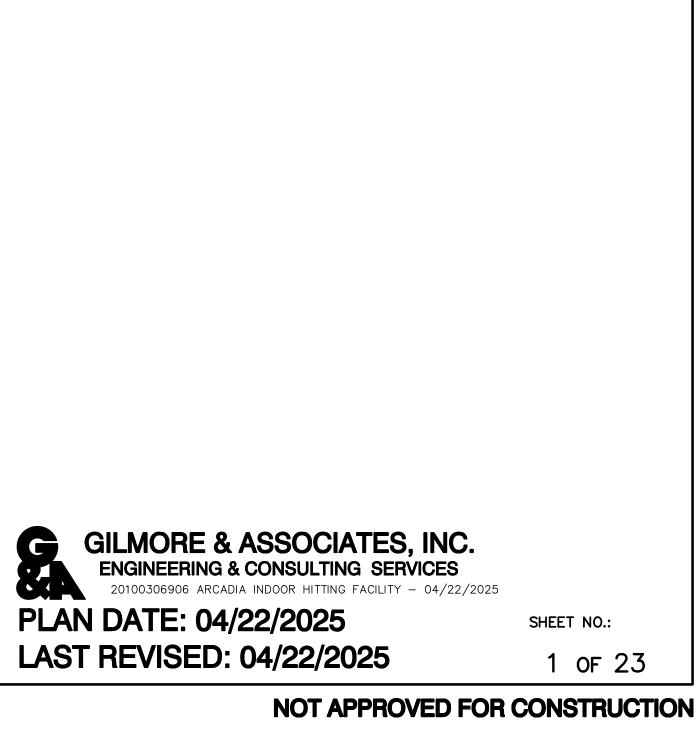
ARCADIA UNIVERSITY 450 S EASTON ROAD GLENSIDE, PA, 19038 215-572-2900

PROJECT LOCATION:

450 S EASTON ROAD GLENSIDE, PA, 19038 CHELTENHAM TOWNSHIP MONTGOMERY COUNTY PENNSYLVANIA

TAX PARCEL:

31-00-08860-00-1



GENERAL NOTES: 1. THESE GENERAL NOTES APPLY TO ALL PLANS, SPECIFICATIONS, AND WORK ASSOCIATED WITH THIS PROJECT. 2. EXISTING FEATURES BACKGROUND AND EXISTING CONDITIONS INFORMATION IS BASED UPON SURVEYS PERFORMED BY GILMORE AND ASSOCIATES, INC. IN JANUARY 2016, AUGUST 2022 AND LAST REVISED IN MAY 2024. ALL LOCATIONS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. NO DIGGING OR EXCAVATIONS WERE DONE IN THE PREPARATION OF THE EXISTING FEATURES BACKGROUND OR EXISTING CONDITIONS INFORMATION, THEREFORE, ALL UNDERGROUND UTILITIES SHOWN OR DEPICTED SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES AND OR FACILITIES NOT SHOWN HEREON. ALL THE DESIGNERS AND CONTRACTORS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED HEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA ACT 187, HOUSE BILL 2627, AMENDING THE ACT OF DECEMBER 17, 1974 (P.L.852, NO. 287) PN 1460 1996 EFFECTIVE 12/19/96. 3. LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC. 4. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO THE START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON MARCH 29, 2007, PENNSYLVANIA ACT 181. GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER FOR DESIGN PURPOSES ONLY 5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CONTACT THE PA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3-WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK. 6. DO NOT SCALE DRAWINGS. ALL MEASUREMENTS SHALL BE TAKEN FROM DIMENSIONS SHOWN ON THE DRAWING. WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, NOTIFY THE DESIGN PROFESSIONAL FOR CLARIFICATION. FIELD VERIFY ALL DIMENSIONS AND NOTIFY DESIGN PROFESSIONAL OF ANY DISCREPANCIES. 7. INSTALL ALL MANUFACTURED ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS COMPLETE WITH ALL ITEMS AND COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION. 8. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS. 9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE APPROPRIATE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, AND OTHER INFORMATION) TO THE VARIOUS SUBCONTRACTORS AND TRADES IN ORDER FOR THEM TO COORDINATE AND PERFORM THE WORK. 10. THE GENERAL CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANY REGULATIONS AND REQUIREMENTS FOR UTILITIES AFFECTED BY THE PROJECT AND PAY ALL REQUIRED FEES AND COSTS ASSOCIATED WITH THOSE UTILITIES. 11. THE CONTRACTOR(S) SHALL OBTAIN ALL PERMITS RELATING TO THIS PROJECT PRIOR TO CONSTRUCTION. 12. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO MEET ALL OF THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL AUTHORITIES, HEALTH DEPARTMENT, AND UTILITY COMPANIES IN ADDITION TO THE INFORMATION STATED IN THESE PLANS, THE SPECIFICATIONS, AND THE CONTRACT DOCUMENTS. 13. IN THE CASE OF CONFLICT BETWEEN ANY PART OF THESE PLANS, THE SPECIFICATIONS, OR THE CONTRACT DOCUMENTS, OR IF DISCREPANCIES ARE DISCOVERED THE CONTRACTOR SHALL NOTIFY THE OWNER AND DESIGN PROFESSIONAL IMMEDIATELY BY PHONE AND IN WRITING AND SHALL REQUEST A WRITTEN DETERMINATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED. IF THE WORK PROCEEDS WITH THE KNOWLEDGE OF A DISCREPANCY AND WITHOUT A WRITTEN DETERMINATION, SUCH WORK WILL NOT BE CONSIDERED IN COMPLIANCE WITH THESE PLANS, THE SPECIFICATIONS, AND CONTRACT DOCUMENTS. 14. ALL WORK WITHIN A RIGHT OF WAY (R.O.W.) OR EASEMENT SHALL BE DONE IN ACCORDANCE WITH THE AGENCY OR ENTITY HAVING JURISDICTION OR OWNERSHIP OF THAT R.O.W. OR EASEMENT. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, INSPECTIONS, ETC. FROM THE AGENCY OF

- ENTITY HAVING JURISDICTION FOR THIS WORK. 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO PROTECT EXISTING STRUCTURES AND FACILITIES, INCLUDING UTILITIES, NOT DESIGNATED FOR DEMOLITION OR REPLACEMENT/UPGRADE SUCH AS BUILDINGS, PIPES, INLETS/MANHOLES, CABLES/WIRES, CONDUITS, APRONS, PAVEMENTS,
- BRIDGES, UTILITIES, TREES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN UNDERCUT AREAS. THE CONTRACTOR(S) SHALL REPLACE OR REPAIR. AS DIRECTED BY THE OWNER OR DESIGN PROFESSIONAL. ANY STRUCTURES OR FACILITIES DAMAGED DURING CONSTRUCTION/THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS 16. THE CONTRACTOR(S) SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXPOSED EXCAVATIONS TO PROTECT FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW/ICE.
- 17. THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS OR DIVISION DIKES, SUMPS AND SUMP PUMPS AND/OR OTHER DEWATERING MEASURES AS REQUIRED TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REPREPARATION AND REAPPROVAL OF THE SUBGRADE.
- 18. ALL ORGANIC, WET, SOFT AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM PAVEMENT SUBGRADE AND BACKFILLED WITH SUITABLE GRANULAR, FREE DRAINING MATERIAL. NO PAVEMENTS OR SLABS SHALL BE PLACED ONTO SUBGRADE CONTAINING FREE WATER, FROST OR ICE SHOULD WATER OR FROST ENTER AN EXPOSED EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE REINSPECTED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY AFTER REMOVAL OF WATER OR FROST.
- 19. THE CONTRACTOR(S) SHALL MAINTAIN ALL EROSION CONTROLS DURING CONSTRUCTION. 20. THE CONTRACTOR(S) SHALL ERECT PROTECTIVE DEVICES MEETING THE OWNERS REQUIREMENTS, SUCH AS TEMPORARY CHAIN-LINK FENCING, TO PROTECT THE SITE FROM UNAUTHORIZED PERSONS FROM ENTERING THE WORK SITE.
- 21. THE CONTRACTOR(S) ARE RESPONSIBLE FOR THE PROTECTION OF EXISTING TREES TO REMAIN. NO EQUIPMENT, MATERIALS, SOIL, OR OTHER DEBRIS SHALL BE STORED UNDER THE DRIPLINE OF THE TREE. IF TREES ARE DAMAGED, ITEMS ARE STORED, OR AREA UNDER THE DRIP LINE IS DISTURBED, OTHER THAN DISTURBANCE CALLED FOR ON THE PLANS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CORRECT THE DAMAGE TO THE SATISFACTION OF THE OWNER OR THE DESIGN PROFESSIONAL.
- 22. IF IT BECOMES NECESSARY TO CLOSE A PORTION OF THE ADJACENT STREET OR SIDEWALK DURING CONSTRUCTION, THE CONTRACTOR(S) SHALL NOTIFY THE LOCAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR(S) SHALL OBTAIN ALL PERMITS REQUIRED FOR THIS WORK OR CLOSURE. 23. THE CONTRACTOR(S) SHALL KEEP ALL PUBLIC AREAS CLEAN OF DEBRIS ON A DAILY BASIS. THE TOWNSHIP OF CHELTENHAM MAINTAINS THE RIGHT TO
- CLEAN THE PROJECT SITE FOR CONTRACTOR NON-COMPLIANCE AT CONTRACTOR'S EXPENSE. 24. ALL MATERIAL REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF IN A LAWFUL MANNER ACCORDING TO APPLICABLE LOCAL, STATE, AND/OR
- FEDERAL REGULATIONS.

DEMOLITION NOTES:

- 1. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE OWNER, OWNER'S REPRESENTATIVE AND DESIGN PROFESSIONAL OF ANY DESCREPANCIES. COMMENCEMENT WITH ANY WORK MEANS THE CONTRACTOR HAS ACCEPTED EXISTING AND FIELD CONDITIONS.
- 2. IN ACCORDANCE WITH PENNSYLVANIA STATE LAW, NOTIFY ALL UTILITY COMPANIES (1-800-242-1776 PENNSYLVANIA ONE CALL SYSTEM) AT LEAST (3) THREE BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.
- 3. THE CONTRACTOR(S) SHALL OBTAIN ALL REQUIRED/PERTINENT PERMITS FOR THIS WORK AND COMPLY AND ADHERE TO ALL APPLICABLE REGULATIONS SET FORTH.
- 4. PERFORM DEMOLITION WORK IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND ORDINANCES AND WITH NATIONAL STANDARD SAFETY REQUIREMENTS FOR DEMOLITION.
- 5. DO NOT INTERFERE WITH THE USE OF ADJACENT BUILDING OR SITE AREAS. 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO PROTECT EXISTING STRUCTURES AND FACILITIES, INCLUDING UTILITIES, NOT DESIGNATED FOR DEMOLITION OR REPLACEMENT/UPGRADE SUCH AS BUILDINGS, PIPES, INLETS/MANHOLES, CABLES/WIRES, CONDUITS, APRONS, PAVEMENTS, BRIDGES, UTILITIES, TREES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN UNDERCUT AREAS. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE DESIGNER, ANY STRUCTURES OR FACILITIES DAMAGED DURING CONSTRUCTION/THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.
- 7. PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO ADJACENT WALKWAYS, PAVEMENT, STRUCTURES, OR OTHER SITE ELEMENTS TO REMAIN. ANY MOVEMENT, DAMAGE, OR SETTLEMENT THAT OCCURS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. 8. PROTECT ALL EXISTING PLANT MATERIALS FROM DAMAGE UNLESS THEY ARE INDICATED TO BE REMOVED. DO NOT PARK OR STORE CONSTRUCTION
- VEHICLES, EQUIPMENT, AND/OR MATERIALS UNDER THE CANOPY (WITHIN THE DRIP LINE) OF ANY TREE TO REMAIN. ANY DAMAGE SHALL BE REPAIRED OR THE PLANT MATERIAL REPLACED WITH PLANTS OF THE SAME SIZE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. ANY REPLACEMENT PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT. 9. PROVIDE, ERECT AND MAINTAIN BARRICADE AND LIGHTING AS REQUIRED BY APPLICABLE REGULATION TO PROTECT OCCUPANTS OF THE
- BUILDING/FACILITY AND WORKERS 10. DEMOLISH AND REMOVE WORK IN A MANNER WHICH ALLOWS FOR THE INTRODUCTION OF NEW ADJACENT WORK WITHOUT DAMAGING EDGE CONDITIONS
- TO THE EXISTING WORK. 11. DEMOLITION OF EXISTING UTILITIES INCLUDES THE REMOVAL OF PIPE, UTILITY STRUCTURES, DRAINS, MANHOLES, ENCASEMENT, FITTINGS, VALVES, ETC.
- 12. DISPOSE OF ALL UNUSABLE MATERIAL AND DEBRIS RESULTING FROM THE WORK OFF OF THE SITE AND LEAVE THE WORK AREAS CLEAN AND READY FOR NEW WORK.
- 13. MAINTAIN UTILITY SERVICES TO ACTIVE EXISTING BUILDINGS AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PERIOD. COORDINATE WITH THE OWNER AND UTILITY PROVIDERS FOR ALL SHUTDOWNS FOR UTILITY CONNECTION AND RELOCATION WORK. 14. ALL UTILITIES NOT SCHEDULED/INDICATED FOR DEMOLITION WITHIN THE LIMIT OF DEMOLITION/WORK AREA SHALL BE PROTECTED AND MAINTAINED
- DURING CONSTRUCTION. 15. SEE SOIL EROSION AND SEDIMENTATION CONTROL PLANS, NOTES AND DETAILS FOR EROSION CONTROL MEASURES AND CONSTRUCTION SEQUENCE. 16. ALL MATERIALS DEMOLISHED, UNLESS IDENTIFIED TO BE SAVED OR SALVAGED (CONCRETE, PAVING, ROOT MAT, FENCING AND ALL OTHER DEBRIS) SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER FEDERAL, STATE, AND LOCAL REGULATIONS. ALL COSTS OF HAULING, DISPOSAL, AND TIPPING FEES
- ARE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE BASE BID. 17. ALL MATERIALS IDENTIFIED TO BE SALVAGED SHALL BE REMOVED WITH CARE TO PREVENT AND MINIMIZE DAMAGE AND SHALL BE STORED ON-SITE FOR REUSE OR FOR RETRIEVAL BY OWNER OR THE OWNER'S REPRESENTATIVE.
- 18. ALL QUANTITIES OF DEMOLITION SHALL BE DETERMINED BY THE CONTRACTOR AND COVERED IN THE BASE BID. CONTRACTOR SHALL MAKE NECESSARY SITE INSPECTIONS PRIOR TO BID TO VERIFY ALL QUANTITIES AND CONDITIONS TO HIS/HER SATISFACTION.
- 19. SAWCUT AND TRIM ALL EXISTING CONCRETE AND ASPHALT PAVEMENT EDGES PRIOR TO INSTALLING NEW PAVING. ENDS OF DAILY NEW ASPHALT PAVEMENT INSTALLATIONS SHALL BE SAWCUT AND TRIMMED NEATLY TO RECEIVE AND INTERSECT THE NEXT AREA OF NEW ASPHALT PAVEMENT 20. ALL EXCAVATED MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A LAWFUL MANNER.
- 21. ALL HAZARDOUS MATERIALS ARE TO BE REMOVED OR REMEDIATED BY A LICENSED AND INSURED PROFESSIONAL.

- 1. VERIFY ALL DIMENSIONS AND ACCEPT SITE CONDITIONS PRIOR TO COMMENCING WORK. COMMENCING WORK MEANS THE CONTRACTOR(S) HAVE ACCEPTED SITE CONDITIONS.
- 2. ALL DIMENSIONS ARE FROM THE FACE OF BUILDING/CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. WALKWAYS ABUTTING CURBS OR WALLS SHALL BE MEASURED FROM THE BACK OF THE CURB/WALL.
- 3. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED. 4. ALL RADII AND DIMENSIONS ARE TO THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL UNLESS OTHERWISE NOTED WITH (B-B), WHICH INDICATES BACK OF CURB, WALL, ETC.
- 5. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR THE LAYOUT AS DETAILED IN THESE DOCUMENTS FOR THIS PROJECT. 6. THE NEW PAVING SHALL PROVIDE A SMOOTH TRANSITION TO EXISTING PAVING WITHOUT ABRUPT CHANGE IN GRADE.

CONCRETE NOTES:

- 1. PROVIDE CAST-IN-PLACE CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND IN ACCORDANCE WITH THE CURRENT VERSION OF ACI-318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
- 2. CONCRETE SHALL CONTAIN EITHER A WATER-REDUCING, PLASTICIZING ADMIXTURE OR A HIGH-RANGE WATER-REDUCING ADMIXTURE. ALL CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE TO PROVIDE 5%-7% AIR ENTRAINMENT. MAXIMUM CHLORIDE CONTENT SHALL BE 0.15%. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45. MAXIMUM DESIGN SLUMP SHALL BE 3 INCHES WITHOUT SUPER PLASTICIZERS. AGGREGATE SIZE SHALL BE 3/4 OF AN INCH WITH A DESIGNATION OF 4S PER ASTM C33.
- 3. WELDED WIRE FABRIC SHALL BE GALVANIZED AND COMPLY WITH ASTM A185.
- 4. REINFORCING STEEL BARS SHALL BE GRADE 60 PER ASTM A615. 5. MIX DESIGNS MUST BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION. SUBMIT MIX DESIGN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. THE OWNER'S REPRESENTATIVE MAY REJECT DESIGN MIX FOR NON-COMPLIANCE. RE-SUBMIT DESIGN MIX UNTIL DESIGN PROFESSIONAL APPROVES.
- 6. MOIST CURE ALL CONCRETE WORK AND COMMENCE MOIST CURING AS SOON AS FINISHES WILL NOT BE MARRED. INSULATING BLANKETS WATERPROOFED KRAFT PAPER. OR POLYETHYLENE FILM AS PER ASTM C-171 SHALL BE USED TO KEEP THE CONCRETE CONTINUOUSLY MOIST DURING THE CURING PROCESS.
- 7. CONCRETE WALKING SURFACES INCLUDING RAMPS SHALL HAVE A NON-SLIP FINISH LIGHT BROOM FINISH PEREPENDICULAR TO SLOPE. JOINTS AND PERIMETER EDGES SHALL BE TOOLED FIRST AND THEN CONCRETE SURFACE SWEPT FOR NON-SLIP FINISH TO ELIMINATE "WINDOW PANE" LOOK. "WINDOW PANE" CONCRETE FINISH WILL NOT BE ACCEPTED.
- 8. EXPANSION JOINT MATERIAL SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408 SECTION 705.1
- 9. EXPANSION JOINTS SHALL BE CAULKED AND SEALED WITH AN ELASTOMERIC, SINGLE COMPONENT, SELF LEVELING, NON-BUBBLING POLYURETHANE SEALANT, SUCH AS W.R. MEADOWS POURTHANE SL, SIKAFLEX SLI, OR APPROVED EQUAL. PROVIDE DESIGNER WITH CHOICE OF SEALANT COLORS TO SELECT FROM.
- 10. CONCRETE SHALL BE PLACED ON A MINIMUM OF 6 INCHES OF COMPACTED CRUSHED WASHED AGGREGATE (NO. 57 OR 3/4 INCH CLEAN) PLACED ON COMPACTED SUBGRADE. SUBGRADE SHALL BE NON-YIELDING.

ASPHALT PAVING NOTES:

- 1. COMPLY WITH APPLICABLE SECTIONS AND PROVISIONS OF THE STANDARD SPECIFICATION OF PAVEMENT CONSTRUCTION PER PENNDOT PUBLICATION 408. BITUMINOUS MATERIALS SHALL BE APPLIED WHEN THE SURFACE IS DRY, FIRM AND CURED, AND OTHERWISE ACCEPTABLE. 2. CONTINUITY: NEW PAVING SHALL BE OF LIKE COMPOSITION OF INGREDIENTS FOR UNIFORMITY AND THICKNESS AND SHALL MATCH THE FINISH OF EXISTING ASPHALT PAVING.
- 3. PERFORM THE WORK WITHOUT STAINING OR INJURY TO OTHER PERMANENT WORK, INCLUDING CURBS AND SIDEWALKS.
- 4. WHERE NEW PAVING MEETS EXISTING, CUT EXISTING PAVING AS REQUIRED WITH A POWER SAW TO CLEAN STRAIGHT LINES WITH VERTICAL EDGES. CUT THE EXISTING PAVEMENT TO ALLOW AN OVERLAP OF ONE FOOT OF NEW WEARING COURSE OVER THE EXISTING BINDER COURSE ALONG THE CONTINUOUS EDGES OF THE TRENCH.
- 5. APPLY PRIMER OF TACK COAT TO ALL EXPOSED SURFACES OF EXISTING WEARING AND BINDER COURSES.
- 6. SEAL PAVEMENT JOINTS AND ALONG PAVEMENT/CURB INTERFACE WITH PG64-22 HOT BITUMINOUS JOINT SEAL. 7. INSTALL SUPPORT GEOTEXTILE FABRIC OVER JOINTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS
- 8. THE NEW PAVING SHALL PROVIDE A SMOOTH TRANSITION TO EXISTING PAVING WITHOUT ABRUPT CHANGE IN GRADE, MAINTAIN POSITIVE DRAINAGE AND ELIMINATE LOW SPOTS.

GENERAL UTILITY TRENCHING NOTES:

- 1. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. 2. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND
- SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS. 3. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH.
- 4. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. 5. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND / OR BACKFILLING
- BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE. 6. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
- 7. SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.
- 8. PLACE EROSION CONTROL MEASURES DOWN-SLOPE OF THE PROPOSED TRENCHING ACTIVITIES. PLACE EXCAVATED MATERIALS ON THE UPSLOPE SIDE OF THE TRENCH.
- 9. TOPSOIL SHALL BE REMOVED AND STOCKPILED SEPARATELY FROM BACKFILL SOILS. TOPSOIL SHALL BE REPLACED UPON FINAL GRADING FOR STABILIZATION
- 10. REMOVE EROSION CONTROL MEASURES AFTER AREA IS STABILIZED. ANY AREAS DISTURBED DURING THE REMOVAL OF THE SILT FENCE SHALL BE RESTABILIZED IMMEDIATELY.

SITE LAYOUT NOTES:

1. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. 2. MAINTAIN POSITIVE DRAINAGED ON PAVING AND NATURAL / EARTHERN SURFACES.

3. UNLESS OTHERWISE NOTED, A MAXIMUM SLOPE SHALL NOT EXCEED 3:1 (H:V) OR 33% FOR NON-PAVED SURFACES.

4. GRADES ON DESIGNATED HANDICAPPED ACCESSIBLE AREAS/ROUTES SHALL COMPLY WITH THE MOST RECENT PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.)

5. GRADE EARTHEN, NON-PAVED, SURFACES TO A SMOOTH FINISH. SLOPE LAWN AREAS IN SWALES TO A GENTLE CROWN ALONG THE CENTERLINE UNLESS OTHERWISE SHOWN.

6. GRADE ALL SEEDED FINE LAWN AREAS FLUSH WITH FINISH GRADE. IF AREA IS TO BE SODDED, ADJUST FINISHED GRADE TO THE PROPER DEPTH WHERE SOD ABUTS PAVED AREAS 7. GRADE ALL TREE/SHRUB/GROUNDCOVER PLANTING BEDS TO 3 INCHES BELOW TOP OF ABUTTING CURBS, PAVING, OR LAWN AREAS TO ALLOW FOR

MULCHING. 8. ADJUST EXISTING AND NEW MANHOLE, CATCH BASINS, AND DRAINS RIM/GRATE ELEVATIONS TO NEW GRADE ELEVATIONS (PAVEMENT OR SOIL).

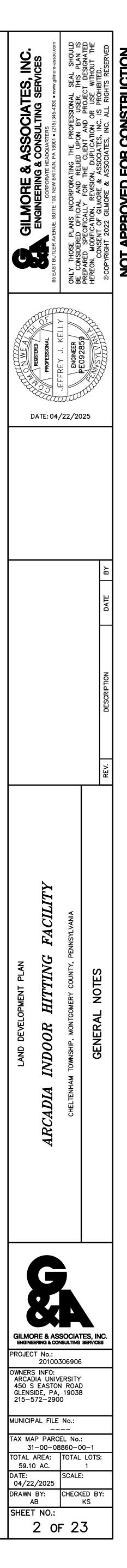
ELIMINATE ROUGH AND LOW AREAS TO ENSURE POSITIVE DRAINAGE. 10. PIPE SLOPES ARE APPROXIMATE; CONTRATOR SHALL USE INVERTS TO INSTALL GRAVITY LINES.

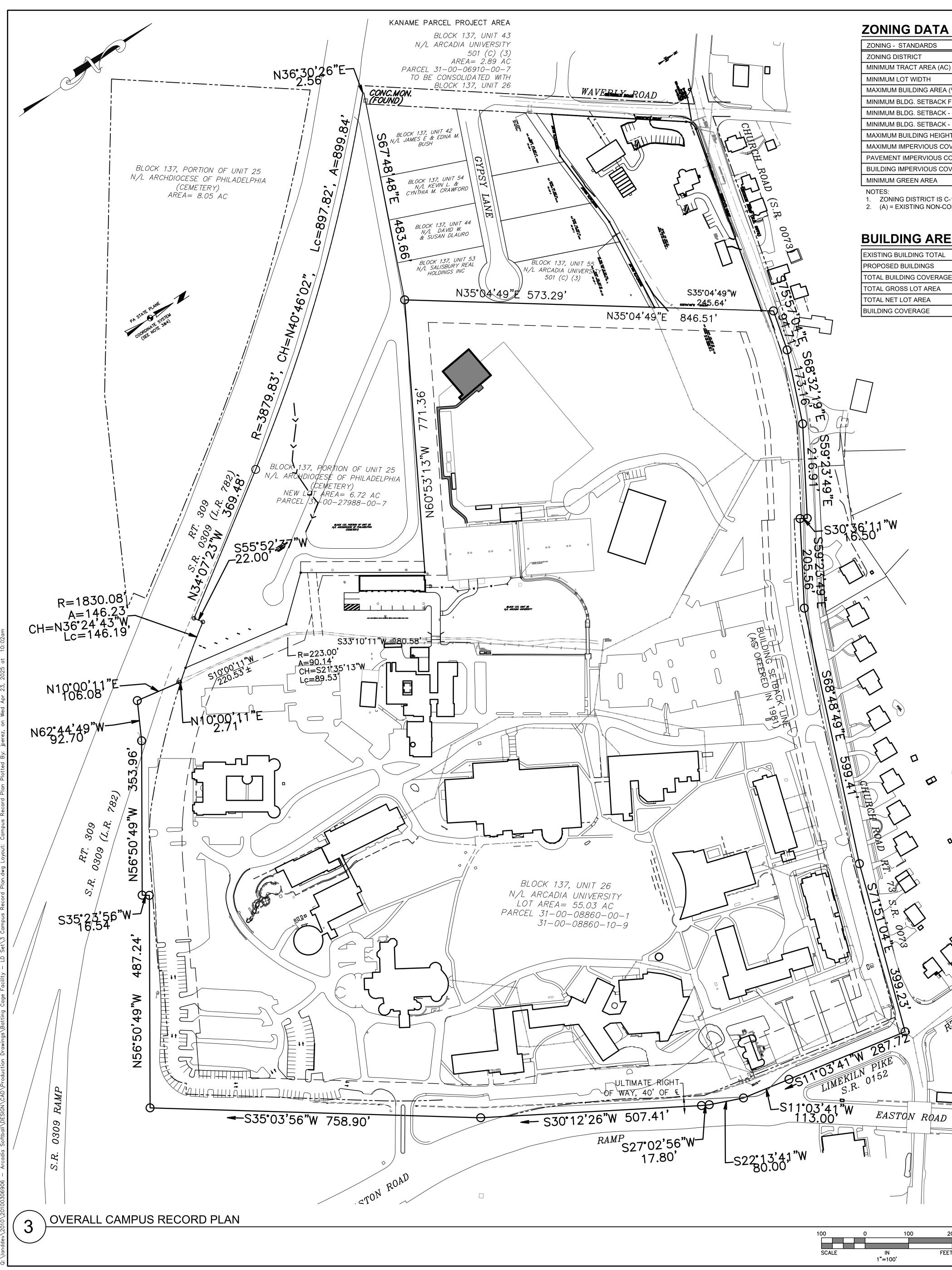
11. FINISHED SURFACES SHALL BE GRADED SMOOTH AND EVEN WITH NO ABRUPT OR AWKWARD CHANGES IN GRADE. SURFACE FINISHES NOT MEETING THIS STANDARD OR NOT DEEMED ACCEPTABLE BY THE DESIGNER OR OWNER SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. 12. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY IF SLOPE REQUIREMENTS CANNOT BE MET. AT NO TIME WILL SLOPES IN EXCESS OF THOSE ABOVE

THE MAXIMUM ALLOWED WILL BE ACCEPTED, UNLESS PRIOR APPROVAL IS RECEIVED IN WRITING BY THE DESIGNER. 13. PLANS INDICATE ALL FINISH GRADE ELEVATIONS. PROVIDE SUBGRADE ELEVATIONS AS REQUIRED BY PLANS, DETAILS, OR SPECIFICATIONS. PROVIDE PROPERLY COMPACTED SUBGRADES OF NATIVE SOIL OR APPROVED FILL. SUBGRADES SHALL BE INSPECTED BY A QUALIFIED INSPECTOR TO ENSURE COMPACTION REQUIREMENTS ARE MET. NATIVE SOILS, FILL, OR SUBGRADES DEEMED INSUFFICIENT SHALL BE REMOVED AND REPLACED WITH APPROPRIATE MATERIAL.

14. COORDINATE GRADING WORK WITH WORK OF OTHER TRADES OR WORK BY OTHERS AS REQUIRED TO COMPLETE THE PROJECT. 15. ALL WALKWAYS SHALL HAVE A CROSS SLOPE OF 1% MINIMUM AND 2% MAXIMUM UNLESS OTHERWISE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.

GRADING AND DRAINAGE NOTES:





ZONING DATA TABLE FOR TAX MAP PARCEL NUMBER 31-00-08860-00-1

- ZONING STANDARDS ZONING DISTRICT MINIMUM TRACT AREA (AC) MINIMUM LOT WIDTH MAXIMUM BUILDING AREA (% OF TRACT) MINIMUM BLDG. SETBACK FROM ULTIMATE RIGHT-OF-MINIMUM BLDG. SETBACK - SIDE YARD MINIMUM BLDG. SETBACK - REAR YARD MAXIMUM BUILDING HEIGHT MAXIMUM IMPERVIOUS COVERAGE PAVEMENT IMPERVIOUS COVERAGE BUILDING IMPERVIOUS COVERAGE MINIMUM GREEN AREA
- 1. ZONING DISTRICT IS C-1 (COMMERCIAL DISTRICT)
- 2. (A) = EXISTING NON-CONFORMITY

BUILDING AREA SUMMARY

EXISTING BUILDING TOTAL	297,888 SF
PROPOSED BUILDINGS	6,400 SF
TOTAL BUILDING COVERAGE	304,288 SF
TOTAL GROSS LOT AREA	2,397,107 SF (55.03 AC)
TOTAL NET LOT AREA	2,336,756 SF (53.64 AC)
BUILDING COVERAGE	304,288 / 2,397,107 = 0.127 = 12.7%

GENERAL NOTES

- NETWORK).

- CHELTENHAM CODE.



PENNSYLVANIA ONE CALL SYSTEM, INC.

_⊨ ____

	REQUIRED	EXISTING	PROPOSED	APPROVED
	C-1	C-1	C-1	
	2.0 AC	55.03 AC	55.03 AC	
	200'	846.51'	846.51'	
	25%	12.4%	12.7%	
-WAY	40'	55.73'	55.73'	
	40'	117.48'	117.48'	
	40'	26.16' (A)	26.16' (A)	
	50'	72.1' (A)	28'	
	65%	36.62%	37%	
	-	579,761 SF (24.19%)	582,411 SF (24.30%)	
	-	297,960 SF (12.43%)	304,360 SF (12.70%)	
	35%	63.41%	63.03%	

PARKING SUMMARY

USE	PARKING REQUIREMENT	PARKING SPACES REQUIRED		
ADMINISTRATION (41,029 GSF)	1 PER 300 GSF	137		
UNIVERSITY STUDENTS	1/CR + 1/5 STUDENTS	826		
BALL FIELDS 1/3 SEAT		100		
TOTAL REQUIRED	1,063			
TOTAL EXISTING	1,118			

THE EXISTING FEATURES AND TOPOGRAPHY AS SHOWN ARE BASED ON A FIELD SURVEY PERFORMED BY GILMORE & ASSOCIATES INC. IN JANUARY 2016, AUGUST 2022, AND LAST REVISED MAY 2024. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY.

VERTICAL DATUM IS NAVD88 AND WAS ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET-GPS VIRTUAL REFERENCE STATION SYSTEM (TOPCON TOPSURV GPS BASE STATION NETWORK).

HORIZONTAL DATUM IS BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD 83) ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET-GPS VIRTUAL REFERENCE STATION SYSTEM (TOPCON TOPSURV GPS BASE STATION

4. ALL STEEP SLOPES BEING DISTURBED ON WITHIN THE PROJECT AREA ARE MANMADE AND THEREFORE CONSERVATION RESTRICTIONS WILL NOT APPLY.

CHELTENHAM TOWNSHIP STANDARD NOTES

1. THIS LAND DEVELOPMENT/SUBDIVISION SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CHELTENHAM TOWNSHIP ORDINANCES.

2. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE PENNDOT PUBLICATION 408 STANDARDS AND SPECIFICATIONS AND WITH ALL TOWNSHIP STANDARDS AND SPECIFICATIONS.

3. ALL NEW PUBLIC UTILITIES, INCLUDING BUT NOT LIMITED TO, ELECTRIC, GAS AND TELEPHONE, SHALL BE PLACED UNDERGROUND WITHIN THE LAND DEVELOPMENT/SUBDIVISION. SUCH UTILITIES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PREVAILING STANDARDS AND PRACTICES OF THE UTILITY OR OTHER COMPANY PROVIDING SERVICE, EXCEPT WHERE IT IS DEMONSTRATED TO THE SATISFACTION OF THE BOARD OF COMMISSIONERS THAT UNDERGROUND INSTALLATIONS ARE NOT FEASIBLE BECAUSE OF PHYSICAL CONDITIONS OF THE LAND.

4. ANY UTILITY CONFLICTS WITH PROPOSED CONSTRUCTION ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE TOWNSHIP ENGINEER AND THE ENGINEER OF RECORD. ALL EXISTING UTILITIES THAT ARE TO BE RELOCATED OR ALTERED IN ANY MANNER ARE TO BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY STANDARDS. ALL EXISTING UTILITIES EXPOSED DURING CONSTRUCTION ARE TO BE SUPPORTED UNTIL BACKFILL IS IN PLACE. ANY CROSSING LESS THAN ONE FOOT CLEAR IS TO BE SUPPORTED WITH A SADDLE (CONCRETE OR SAND AS NOTED).

5. NO ADDITIONAL IMPERVIOUS AREAS (DECKS, ADDITIONS, PATIOS, SHEDS, WALKWAYS, ETC.) FROM THAT SHOWN ON THIS PLAN SET SHALL BE ADDED TO THESE LOTS WITHOUT MITIGATING STORMWATER MANAGEMENT MEASURES APPROVED BY TOWNSHIP ENGINEER TO ENSURE NO ADDITIONAL STORMWATER RUNOFF OCCURS.

6. IT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO PROPERLY MAINTAIN, REPAIR AND/OR REPLACE THE STORMWATER MANAGEMENT FACILITIES LOCATED ON THEIR PROPERTY. THE MAINTENANCE, REPAIR AND/OR REPLACEMENT OF THE STORMWATER MANAGEMENT FACILITIES SHALL BE TO THE DEGREE CONSIDERED SATISFACTORY BY THE TOWNSHIP.

7. LIMITS OF DISTURBANCE, AS SHOWN ON THE PLANS, SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, (INCLUDING INSTALLATION OF EROSION/SEDIMENT CONTROL MEASURES). THE LIMITS OF DISTURBANCE SHALL BE MARKED WITH STAKED YELLOW SAFETY RIBBON OR OTHER MATERIALS ACCEPTABLE TO THE TOWNSHIP; THE MARKING MATERIALS SHALL BE MAINTAINED, REPAIRED OR RESET UNTIL CONSTRUCTION WITHIN THE ENCLOSED AREAS IS COMPLETE AND UNTIL THE PERVIOUS AREAS ACHIEVE A 75% CATCH OF GROUND COVER. NO DISTURBANCE OF GROUND COVER, CUTS OR FILL PLACEMENT SHALL BE PERMITTED OUTSIDE THE STAKED LIMITS OF DISTURBANCE.

8. DURING CONSTRUCTION, THE DEVELOPER/OWNER IS SOLELY RESPONSIBLE FOR INSURING THE PROPER FUNCTIONING OF THE EROSION AND SEDIMENT CONTROL MEASURES. THE DEVELOPER/OWNER SHALL TAKE WHATEVER MEASURES ARE REQUIRED TO INSURE THAT NO SEDIMENT LEAVES THE SITE.

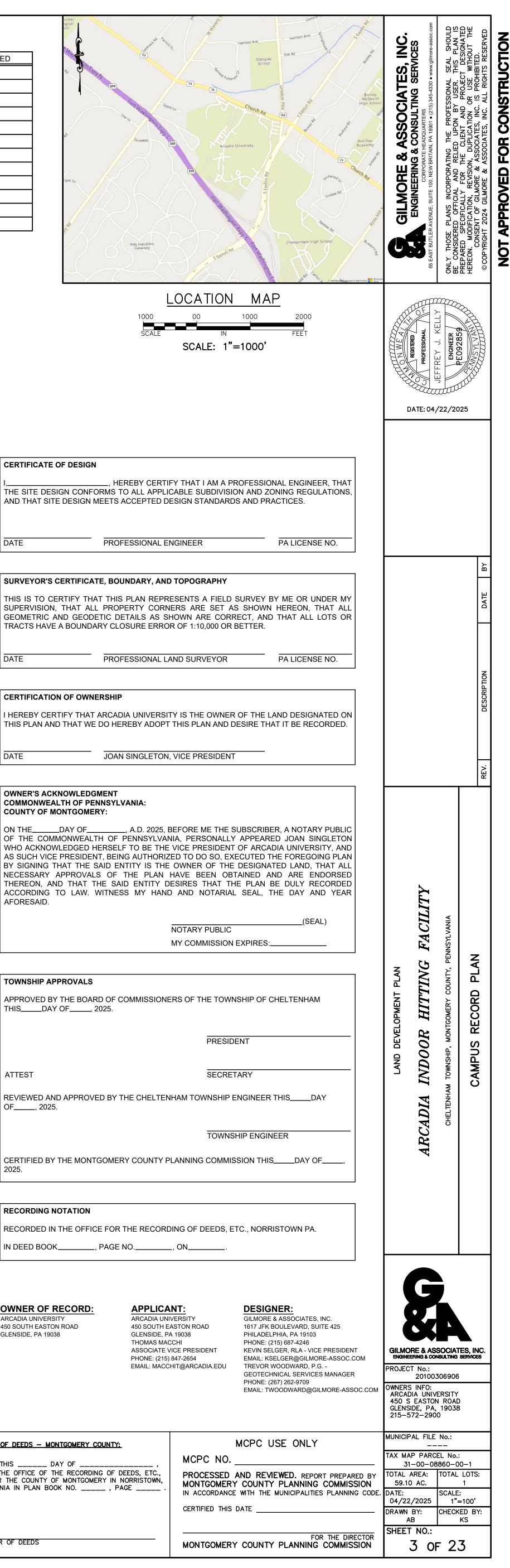
9. NO DEBRIS DISPOSAL PITS SHALL BE PERMITTED.

10. NO OPEN BURNING SHALL BE PERMITTED.

11. ALL TREES TO BE SAVED SHALL BE TAGGED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION; ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 280-10 OF THE

12. ALL EXTERIOR LIGHTING FIXTURES SHALL BE SHIELDED TO DEFLECT LIGHTING FROM ADJACENT RESIDENTIAL PROPERTIES AND FROM PASSING MOTORISTS.

13. THE OWNER SHALL PRESERVE ALL TREES ON THIS SITE EXCEPT WHERE NECESSARY TO CONSTRUCT BUILDINGS, PARKING, ACCESSWAYS, AND UTILITIES AND SELECTIVE THINNING OF EXISTING TREES, SPECIFIC SPECIES OF PLANT MATERIALS AS DESIGNATED ON THIS PLAN OR THE LANDSCAPE PLAN SHALL BE PRESERVED AND PROPERLY PROTECTED DURING CONSTRUCTION. IN THE CASE OF UTILITY RIGHTS-OF-WAY AND EASEMENTS, ANY DISTURBED AREA SHALL BE REPLANTED SO AS TO ACHIEVE A RECURRENCE OF NATURAL VEGETATION.



CERTIFICATE OF DESIGN

AND THAT SITE DESIGN MEETS ACCEPTED DESIGN STANDARDS AND PRACTICES

TRACTS HAVE A BOUNDARY CLOSURE ERROR OF 1:10,000 OR BETTER.

DATE

CERTIFICATION OF OWNERSHIP

OWNER'S ACKNOWLEDGMENT COMMONWEALTH OF PENNSYLVANIA: COUNTY OF MONTGOMERY:

ON THE_____DAY OF____ AFORESAID.

TOWNSHIP APPROVALS

ATTEST

APPROVED BY THE BOARD OF COMMISSIONERS OF THE TOWNSHIP OF CHELTENHAM THIS_____DAY OF____, 2025.

REVIEWED AND APPROVED BY THE CHELTENHAM TOWNSHIP ENGINEER THIS_____DAY OF____, 2025.

2025

RECORDING NOTATION

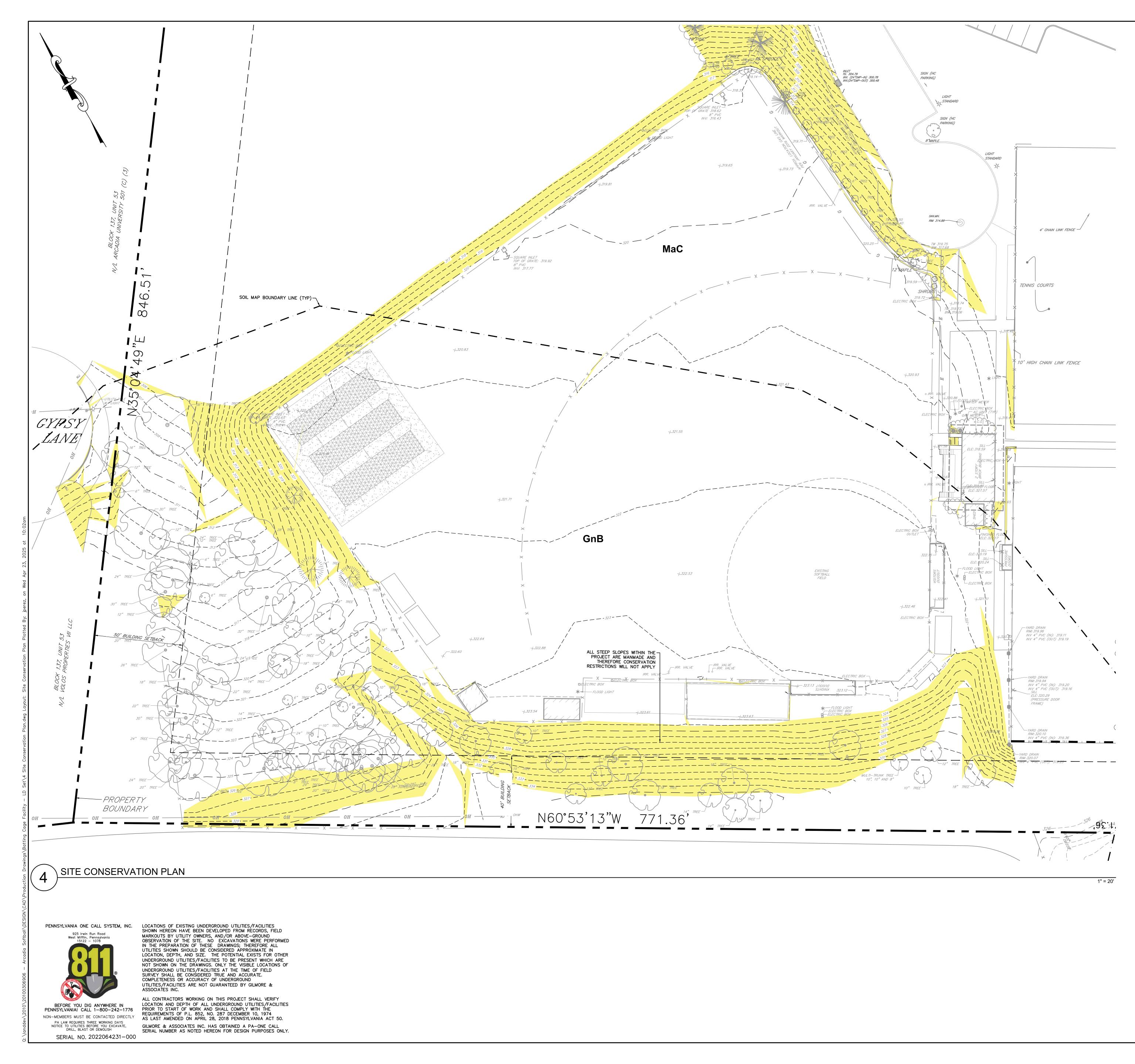
RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., NORRISTOWN PA. IN DEED BOOK_____, PAGE NO._____, ON_____

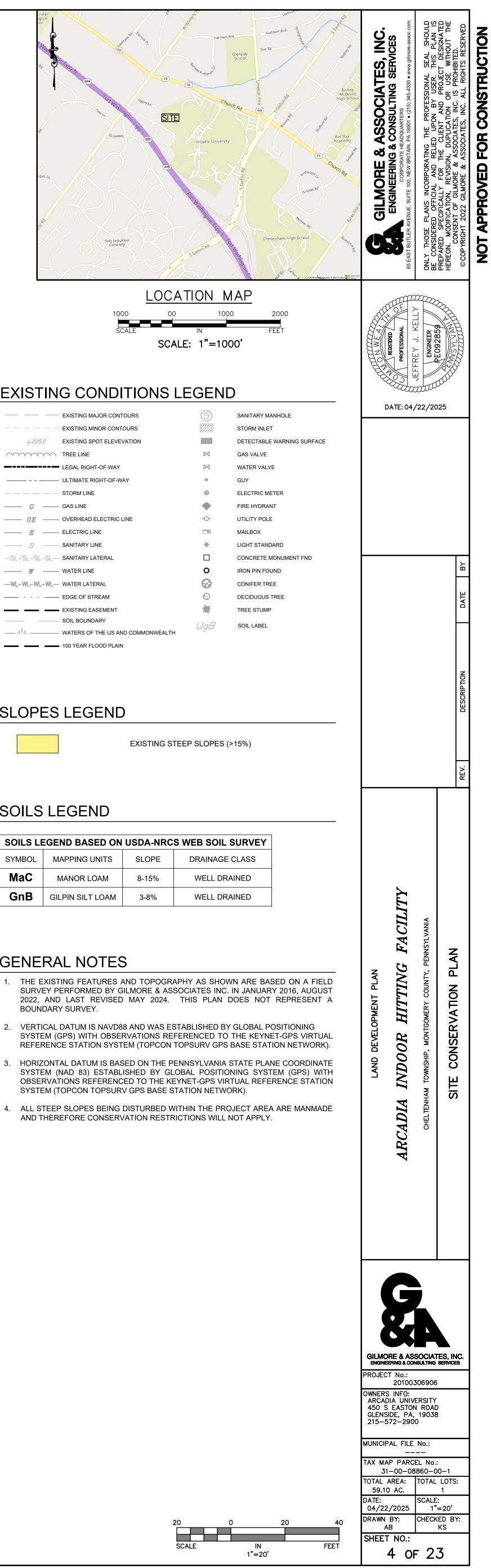
OWNER OF RECORD: RCADIA LINIVERSI 450 SOUTH EASTON ROAD GLENSIDE, PA 19038

RECORDER OF DEEDS - MONTGOMERY COUNTY: RECORDED THIS _____ DAY OF _____ ____, IN THE OFFICE OF THE RECORDING OF DEEDS, ETC., IN AND FOR THE COUNTY OF MONTGOMERY IN NORRISTOWN, PENNSYLVANIA IN PLAN BOOK NO. _____, PAGE _____

RECORDER OF DEEDS

BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776 NON-MEMBERS MUST BE CONTACTED DIRECTLY PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH SERIAL NO. 2022064231-000





EXISTING CONDITIONS LEGEND

	EXISTING MAJOR CONTOURS	S	SANITAR
	EXISTING MINOR CONTOURS		STORM I
+225.0	EXISTING SPOT ELEVEVATION		DETECT
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TREE LINE	$\bowtie$	GAS VAL
	LEGAL RIGHT-OF-WAY	$\bowtie$	WATER
	- ULTIMATE RIGHT-OF-WAY	•	GUY
	STORM LINE	Ð	ELECTRI
<i>G</i>	- GAS LINE	•	FIRE HYI
OE	- OVERHEAD ELECTRIC LINE	-0-	UTILITY
<i>E</i>	- ELECTRIC LINE		MAILBOX
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	- WATER LATERAL	$\otimes$	CONIFEF
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	EXISTING EASEMENT	<b>1</b>	TREE ST
	- SOIL BOUNDARY	UgB	SOIL LA
	- WATERS OF THE US AND COMMONWEALTH	- 50	
	100 YEAR FLOOD PLAIN		

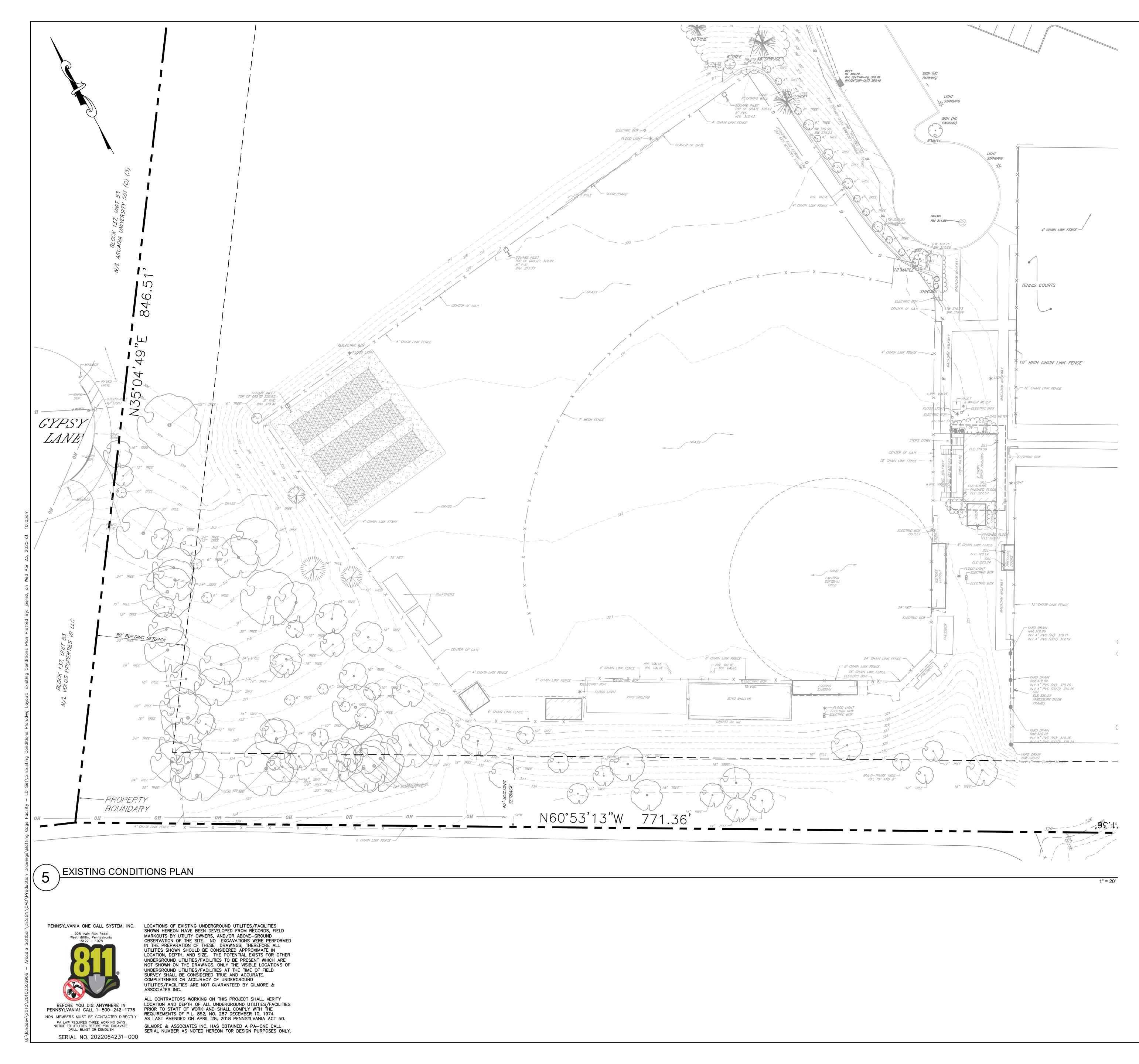
### SLOPES LEGEND

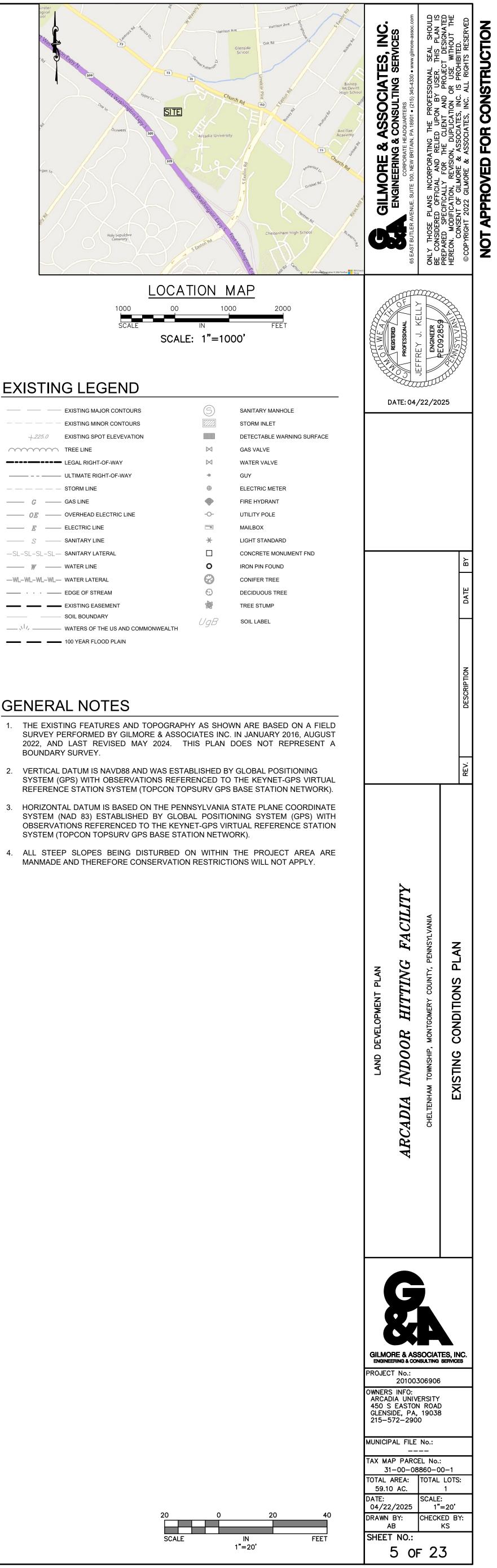
### SOILS LEGEND

SOILS LE	EGEND BASED ON	USDA-NRC	S WEB SOIL SURVE
SYMBOL	MAPPING UNITS	SLOPE	DRAINAGE CLASS
MaC	MANOR LOAM	8-15%	WELL DRAINED
GnB	GILPIN SILT LOAM	3-8%	WELL DRAINED

#### **GENERAL NOTES**

- BOUNDARY SURVEY.
- SYSTEM (TOPCON TOPSURV GPS BASE STATION NETWORK).

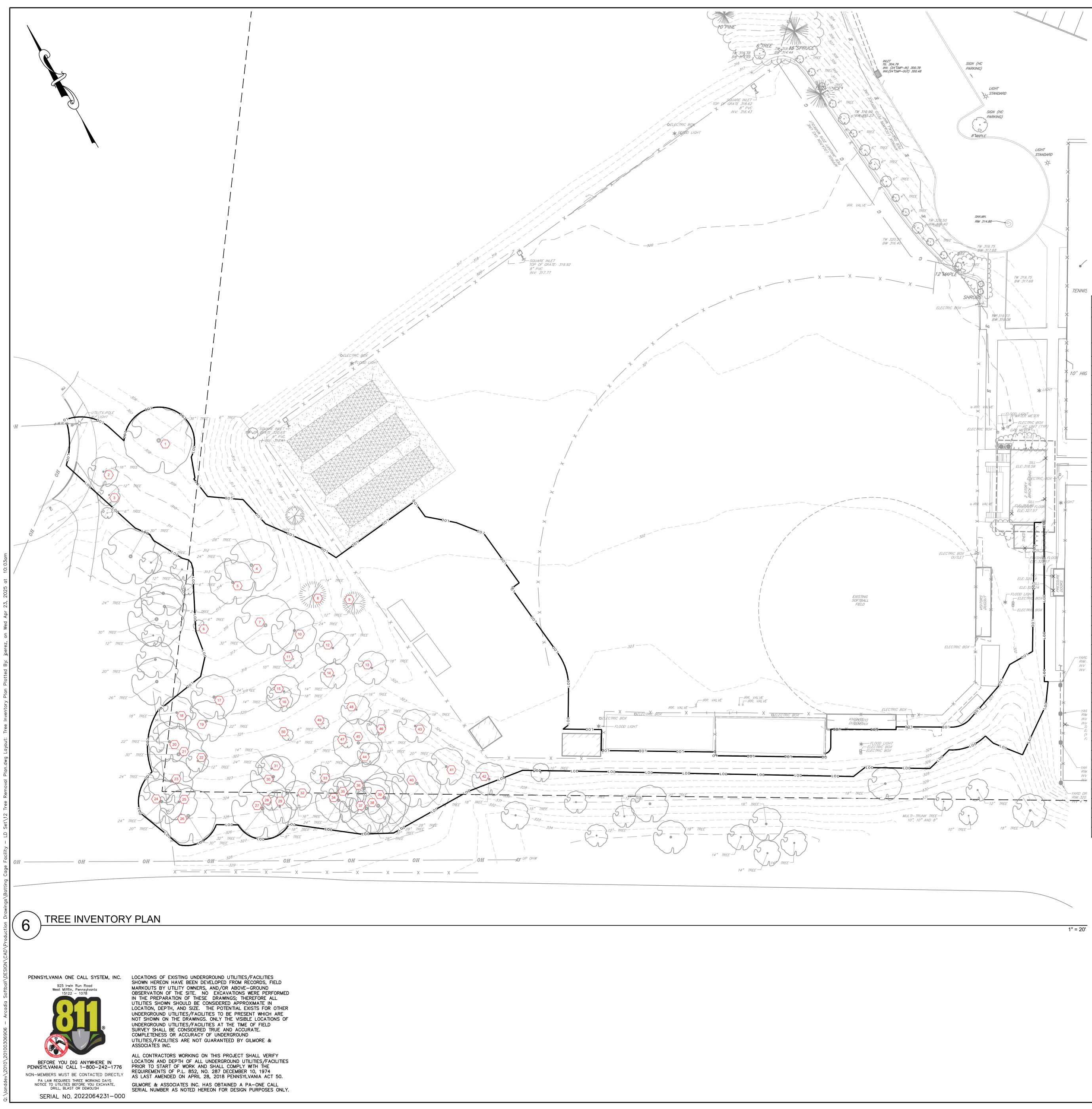


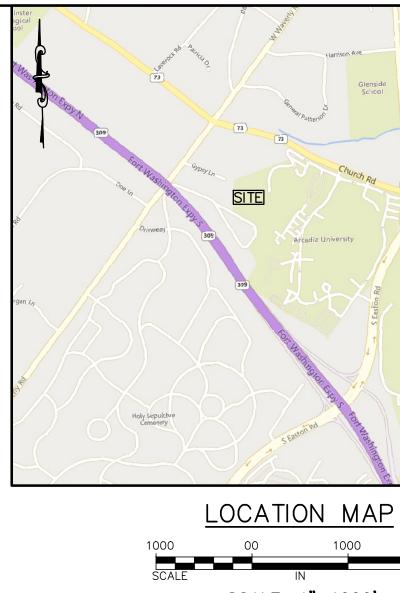


E	XISTING MAJOR CONTOURS	S	SANITAR
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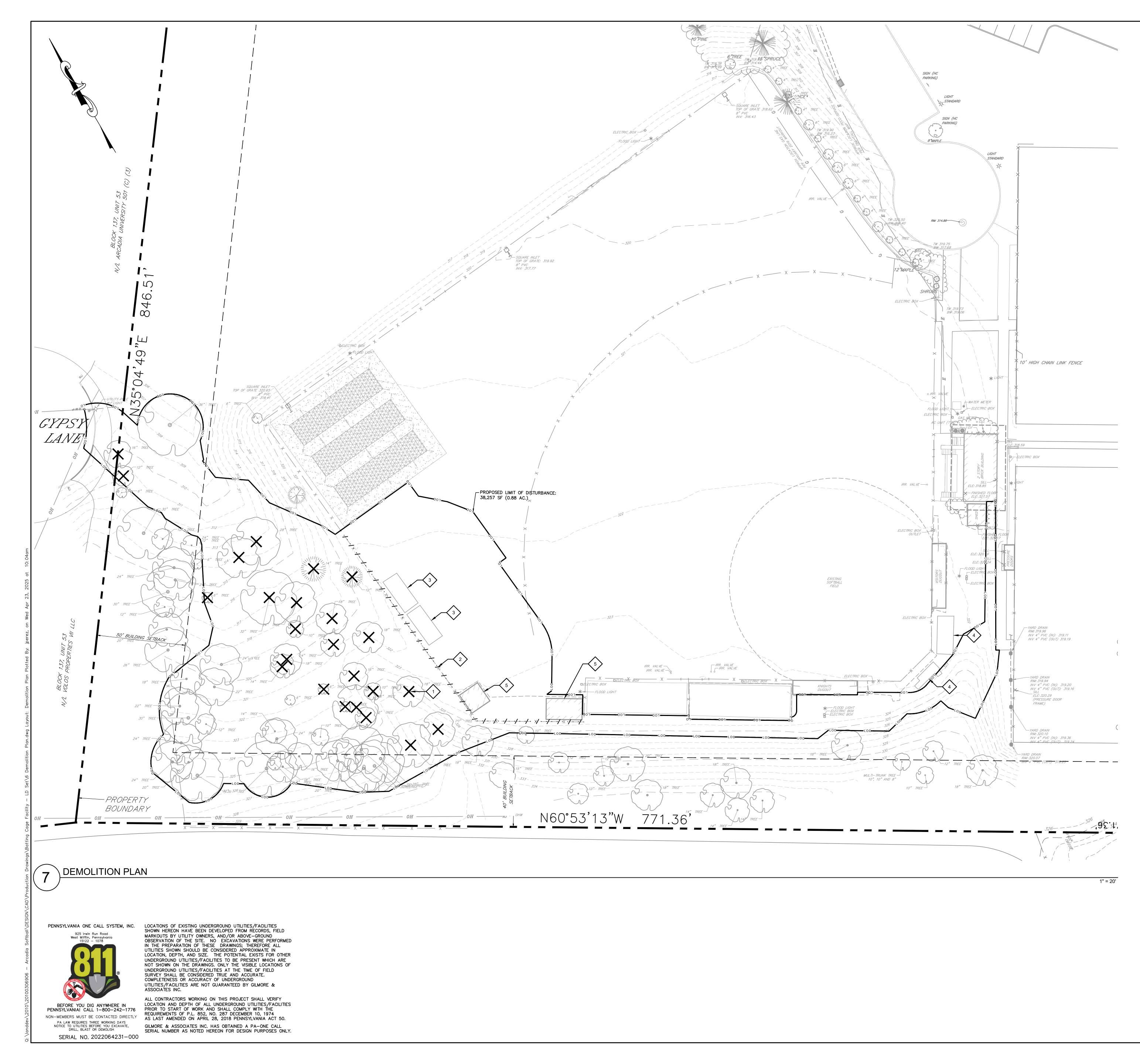
GENERAL NOTES

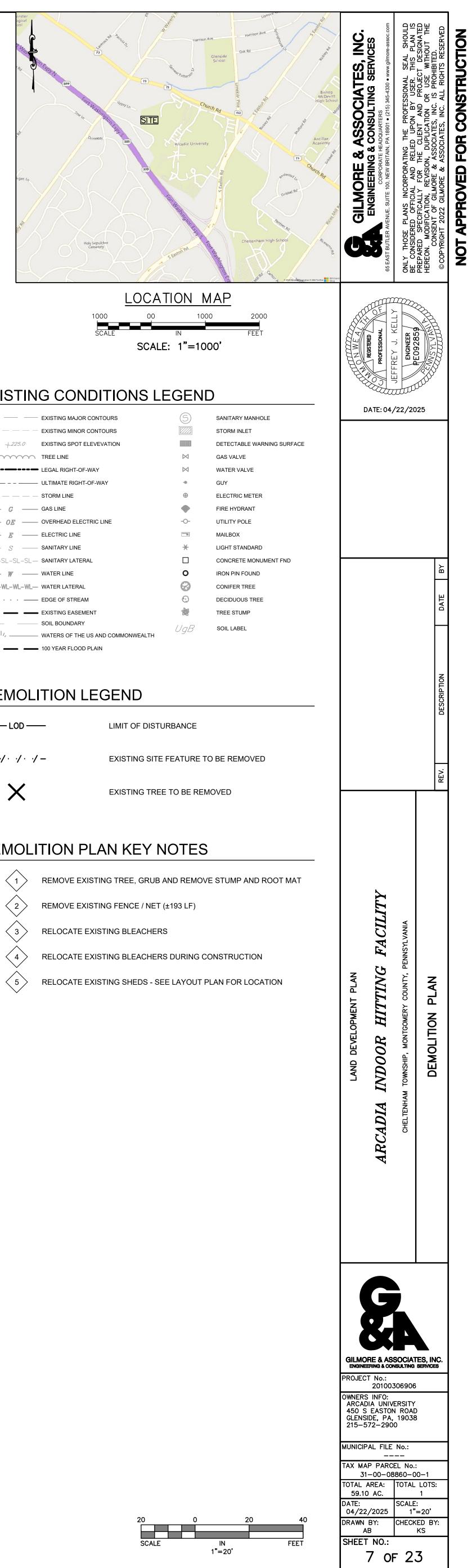
- BOUNDARY SURVEY.
- SYSTEM (TOPCON TOPSURV GPS BASE STATION NETWORK).





		ed Igen L ₂	Hoty Sepult	LOC o c	Arcadiz	University Performance Total 1000	cheltenham High Sci units of General 2000 FEET	Ancillae Academy adwoorth Gribbel Rd As Re Dool Ricebana As Real Dool Ricebana As Statement & Statement & Com		CONSULTING & CONSULTING CORPORATE HEADUARTERS 05 EAST BUTLER AVENUE, SUITE 100, NEW BRITAIN, PA 18901 • (215) 345-4330	ONLY THOSE PLANS INCORPORATING THE PR BE CONSIDERED OFFICIAL AND RELIED UPON DEPENDATED SEFICIALIY FOR THE CLIENT A	COPYRIGHT 2022 GILMORE & ASSOCIATES, INC. IS PROHIBITED.
		TREE INVEN	TORY (W	ITHIN LO	-							
			To Be R	emoved	DBH		Preserved					
Tree ID#	Species	Condition	Dead	Live	1"-7"	(To F 8"-11"	Remain)	18" & Up				
1	Tulip Poplar	Good			• -•		•• • • • •					
2 3	Maple Tulip Poplar	Fair Good		√ √								
4 5	Tulip Poplar Red Maple	Fair Good		√ √								BY
6 7	Pennsylvania Cherry Tulip Poplar	Fair Good		√ √								E
8 9	White Pine Fir	Good Poor		\checkmark								DATE
10	Red Maple	Good		\checkmark								
11 12	Norway Maple Red Maple	Good Poor		\checkmark								-
13 14	White Pine Red Maple	Good Good		\checkmark								DESCRIPTION
15 16	Tulip Poplar Norway Maple	Good Good		√ √								DESC
17 18	Tulip Poplar Tulip Poplar	Poor Fair						√ √				
19 20	Tulip Poplar	Fair Good						\checkmark				>
21	Tulip Poplar Tulip Poplar	Good						✓ ✓				REV.
22 23	Sourwood Tulip Poplar	Fair Good					√	√				
24 25	Tulip Poplar Tulip Poplar	Good Poor						√ √				
26 27	Tulip Poplar Tulip Poplar	Good Good						\checkmark				
28	Norway Maple	Good				√				<u>N</u> .		
29 30	Tulip Poplar Tulip Poplar	Poor Good						√ √		(TTJ		
31 32	Norway Maple Tulip Poplar	Good Good					√ √			FACILITY	LVANIA	
33 34	Cherry Tulip Poplar	Good Good				√		\checkmark		•	PENNSYLVANIA	Z
35 36	Tulip Poplar Tulip Poplar	Good Fair						\checkmark	PLAN	IING	DUNTY,	PLAN
37	Tulip Poplar	Good						\checkmark	MENT	HITT	AERY CO	ORΥ
38 39	Tulip Poplar Tulip Poplar	Good Poor						\checkmark	DEVELOPMENT		ONTGON	INVENTORY
40 41	Tulip Poplar Red Maple	Good Fair	√	√ √					JD DE/	INDOOR	SHIP, M	
42 43	Red Maple Red Oak	Good Good		√				\checkmark	LAND	IND	1 TOWN	TREE
44 45	Cherry Tulip Poplar	Good Good		\checkmark							CHELTENHAM TOWNSHIP, MONTGOMERY COUNTY,	-
46	Red Maple	Good		\checkmark						ARCADIA	CHEL	
47 48	Cherry Oak	Good Poor	✓ ✓	√ 						AR		
<u>49</u> 50	Cherry Cherry	Good Good		\checkmark	\checkmark							





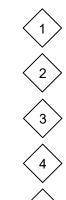
EXISTING CONDITIONS LEGEND

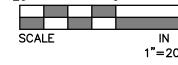
	EXISTING MAJOR CONTOURS	(\mathbb{S})	SANITAR
	EXISTING MINOR CONTOURS		STORM I
+225.0	EXISTING SPOT ELEVEVATION		DETECT
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TREE LINE	$\bowtie$	GAS VAL
	LEGAL RIGHT-OF-WAY	$\bowtie$	WATER \
	ULTIMATE RIGHT-OF-WAY	-0	GUY
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<i>G</i>	GAS LINE	•	FIRE HY
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	EXISTING EASEMENT	<b>1</b>	TREE ST
		UgB	SOIL LAE
	WATERS OF THE US AND COMMONWEALTH	5	
	100 YEAR FLOOD PLAIN		

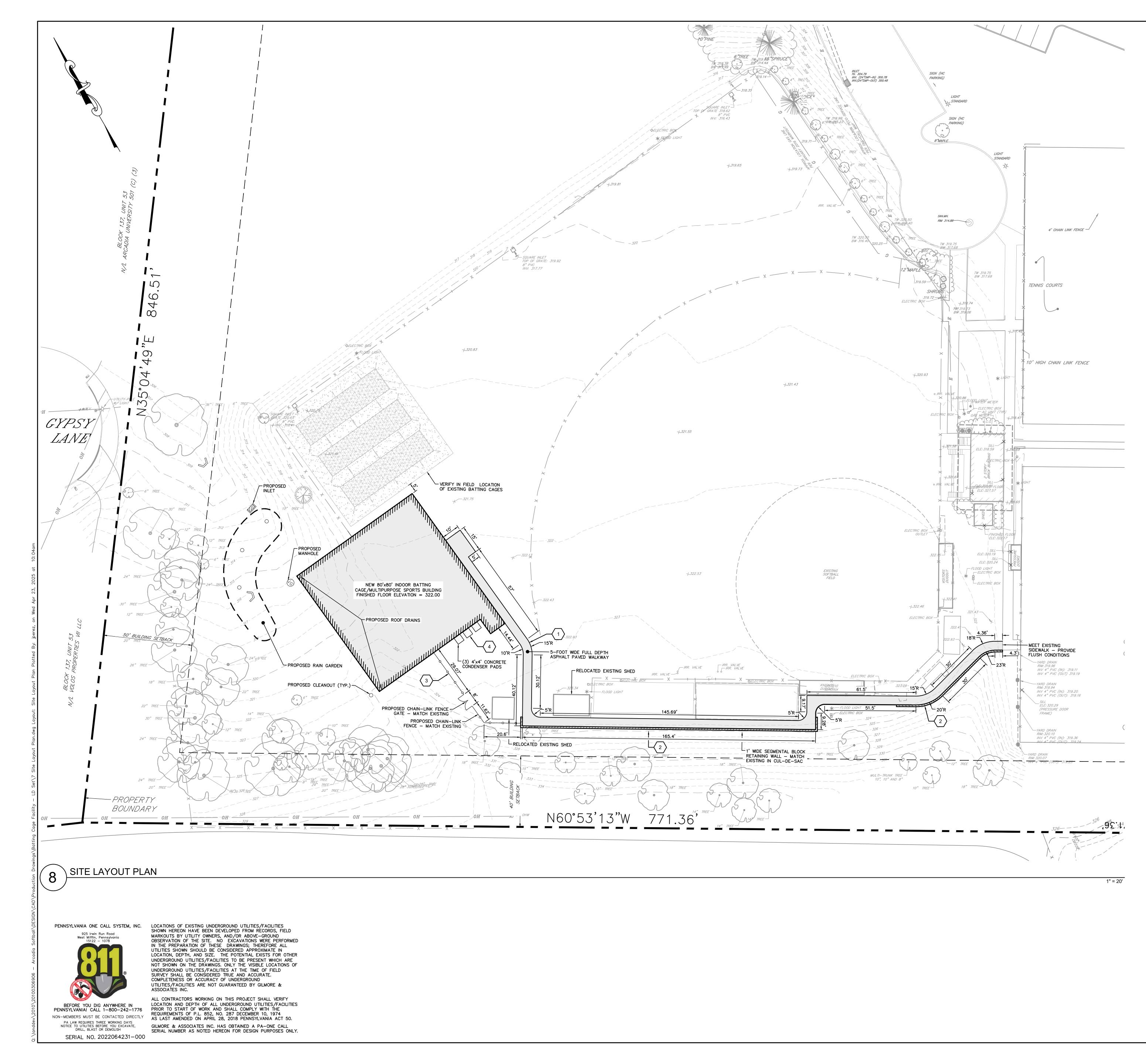
#### DEMOLITION LEGEND

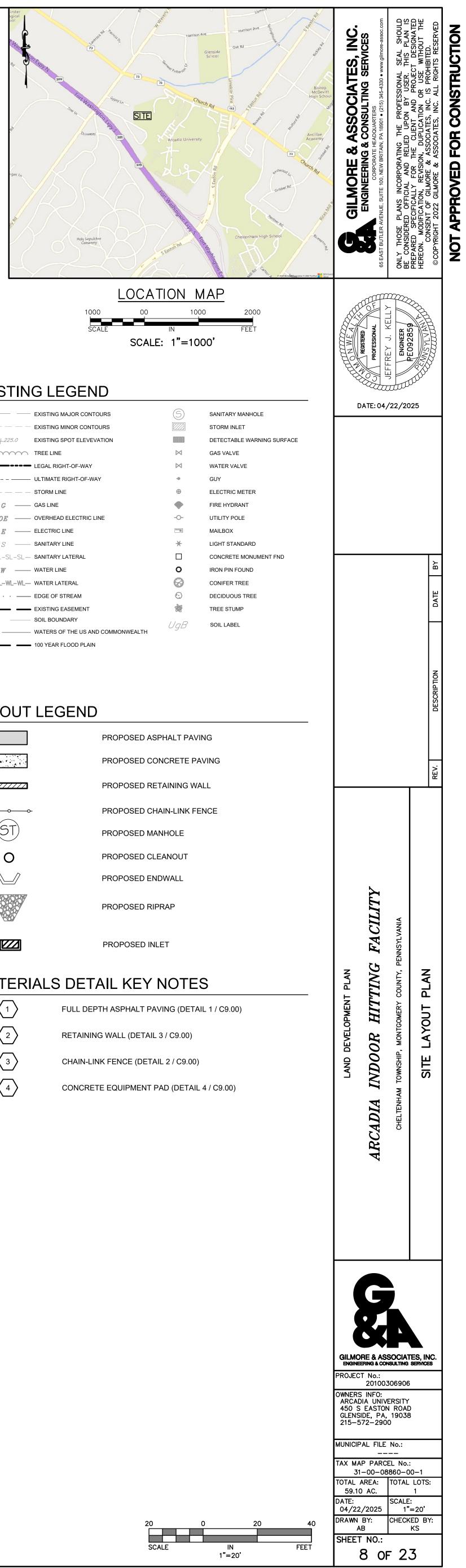
LOD	LIMIT OF DISTURBANCE
///	EXISTING SITE FEATURE TO BE RE
X	EXISTING TREE TO BE REMOVED

### DEMOLITION PLAN KEY NOTES







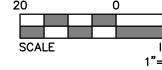


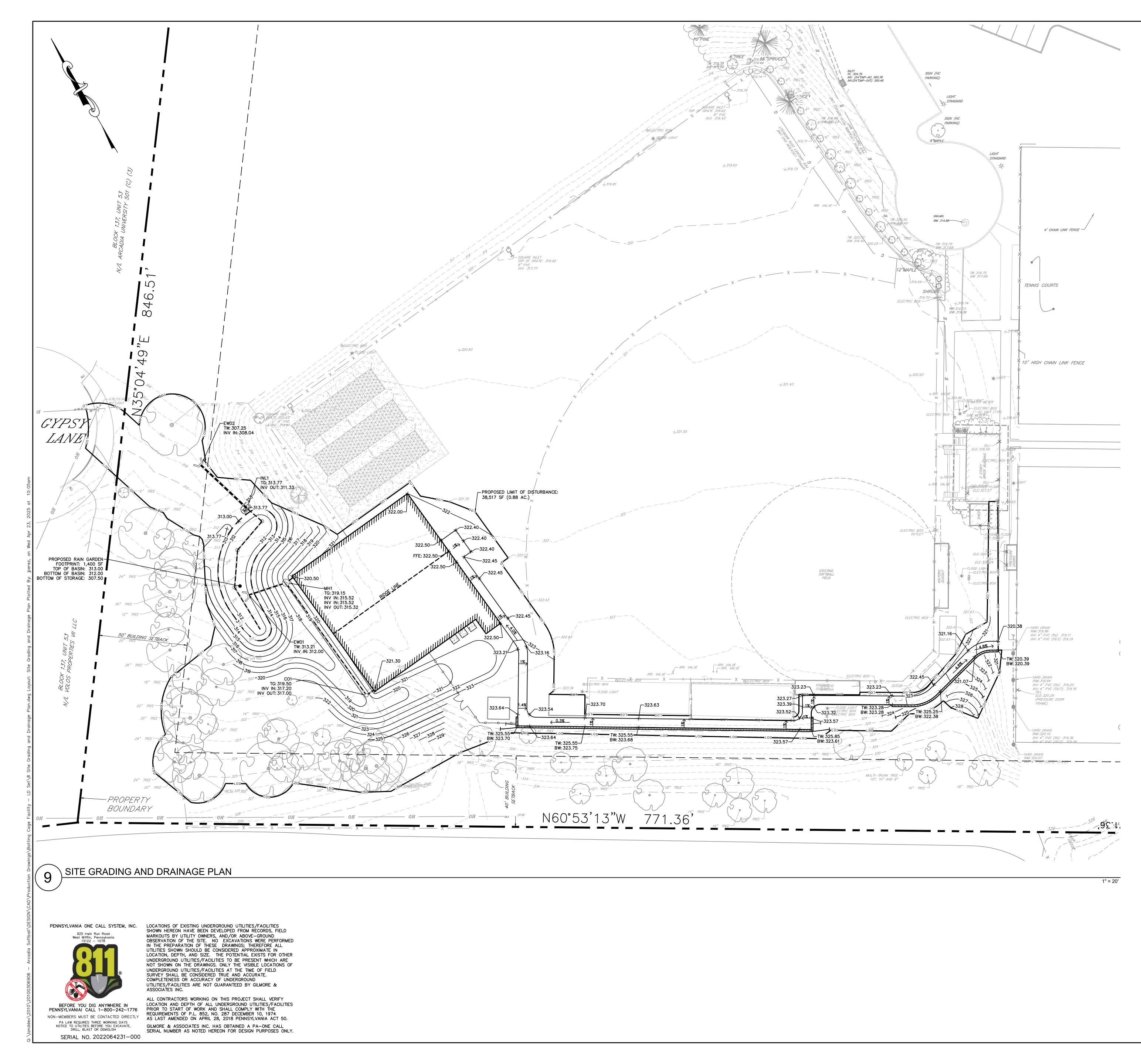
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	SOIL BOUNDARY	UgB	SOIL LAI
	WATERS OF THE US AND COMMONWEALTH	2 5 2	
	100 YEAR FLOOD PLAIN		

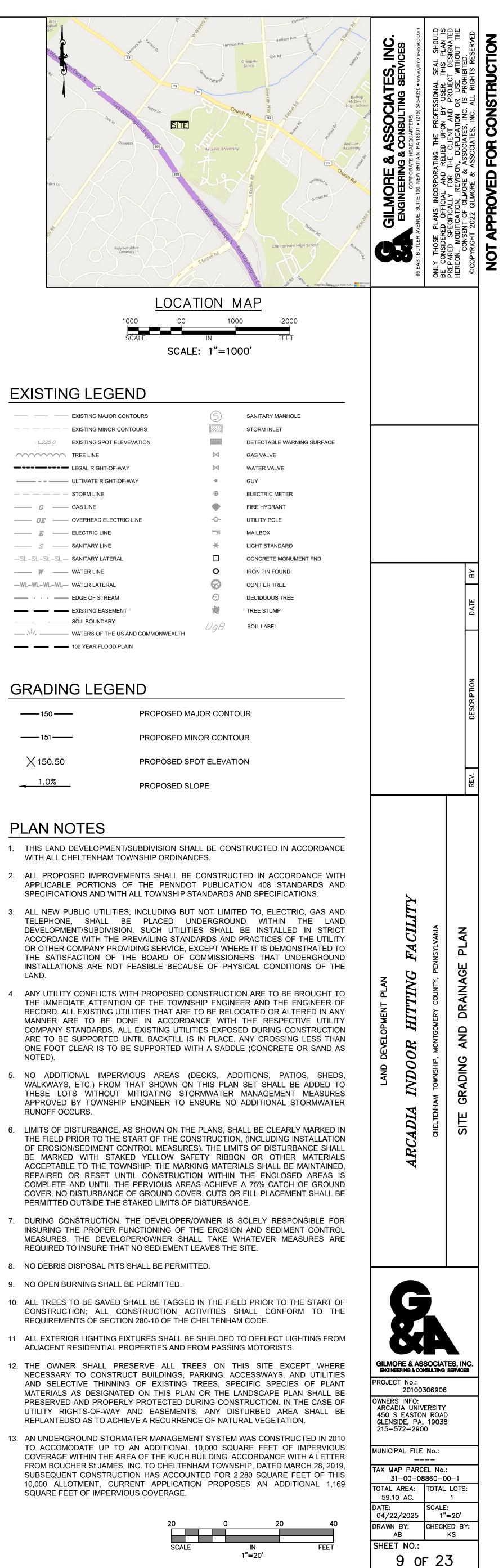
LAYOUT LEGEND

	PROPOSED ASPHALT PAVING
	PROPOSED CONCRETE PAVING
//////	PROPOSED RETAINING WALL
- <b>OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO</b> - <b>O</b>	PROPOSED CHAIN-LINK FENCE
ST	PROPOSED MANHOLE
0	PROPOSED CLEANOUT
	PROPOSED ENDWALL
	PROPOSED RIPRAP
	PROPOSED INLET
MATERIALS D	ETAIL KEY NOTES

$\left\langle 1\right\rangle$	FULL DEPTH ASPHALT PAVING (DETAIL 1 / C9.0
$\langle 2 \rangle$	RETAINING WALL (DETAIL 3 / C9.00)
$\langle 3 \rangle$	CHAIN-LINK FENCE (DETAIL 2 / C9.00)
$\langle 4 \rangle$	CONCRETE EQUIPMENT PAD (DETAIL 4 / C9.00







	EXISTING MAJOR CONTOURS	S	SANITAR
	EXISTING MINOR CONTOURS		STORM I
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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TREE LINE	$\bowtie$	GAS VAL
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<u> </u>	• EXISTING EASEMENT	M	TREE ST
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------ 100 YEAR FLOOD PLAIN

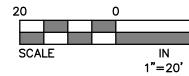
GRADING LEGEND

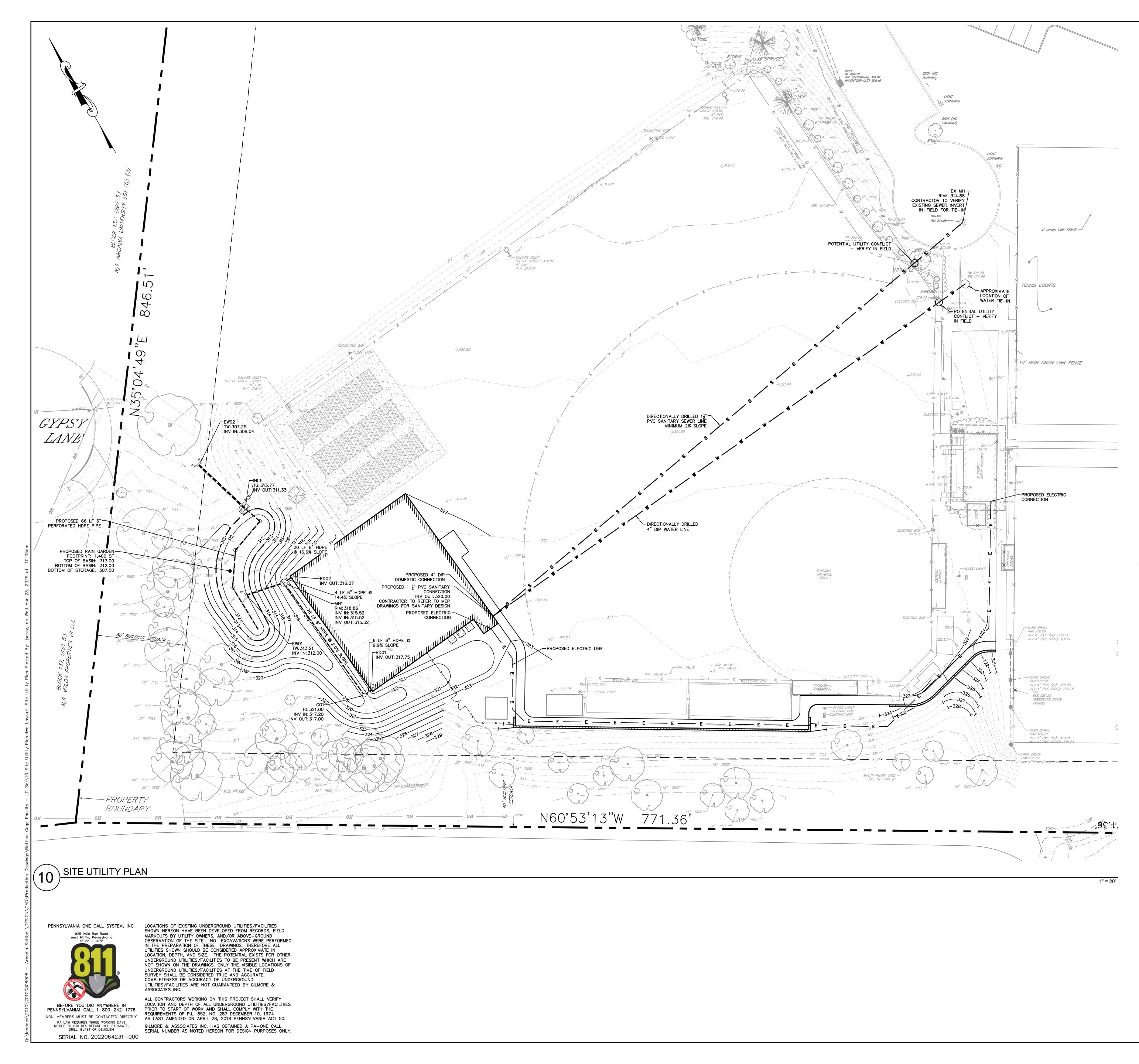
150	PROPOSED MAJOR CONTOUR
151	PROPOSED MINOR CONTOUR
∑150.50	PROPOSED SPOT ELEVATION
1.0%	PROPOSED SLOPE

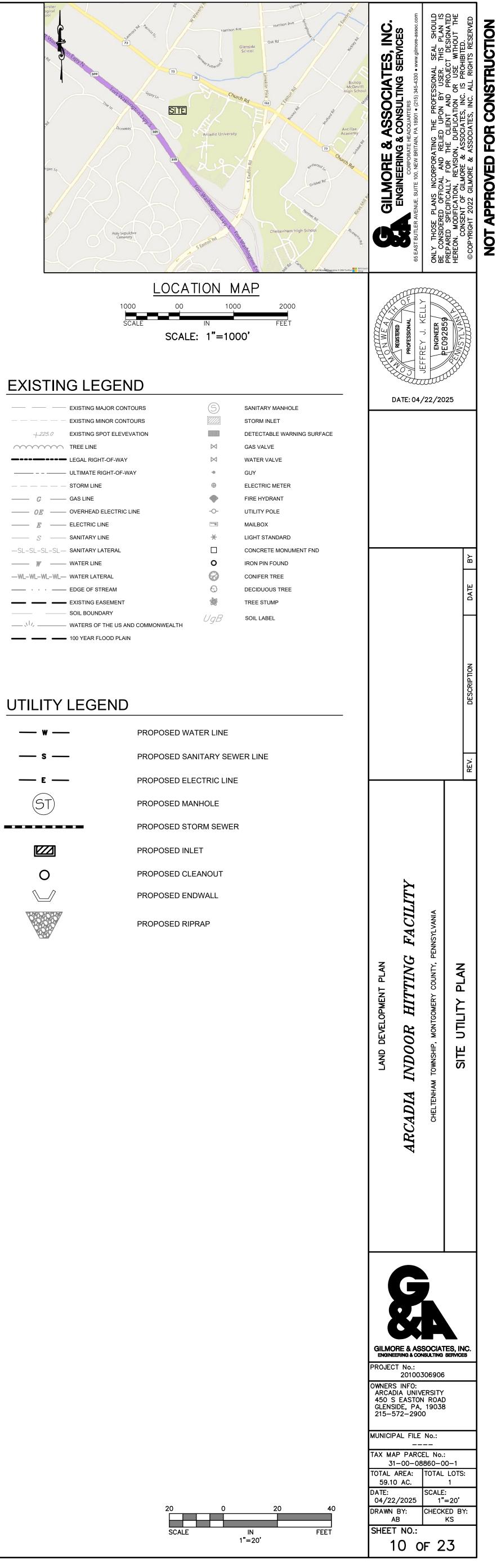
PLAN NOTES

- WITH ALL CHELTENHAM TOWNSHIP ORDINANCES.
- LAND.
- NOTED).
- RUNOFF OCCURS.
- PERMITTED OUTSIDE THE STAKED LIMITS OF DISTURBANCE.
- REQUIRED TO INSURE THAT NO SEDIEMENT LEAVES THE SITE.
- 8. NO DEBRIS DISPOSAL PITS SHALL BE PERMITTED.
- 9. NO OPEN BURNING SHALL BE PERMITTED.
- REQUIREMENTS OF SECTION 280-10 OF THE CHELTENHAM CODE.

- SQUARE FEET OF IMPERVIOUS COVERAGE.



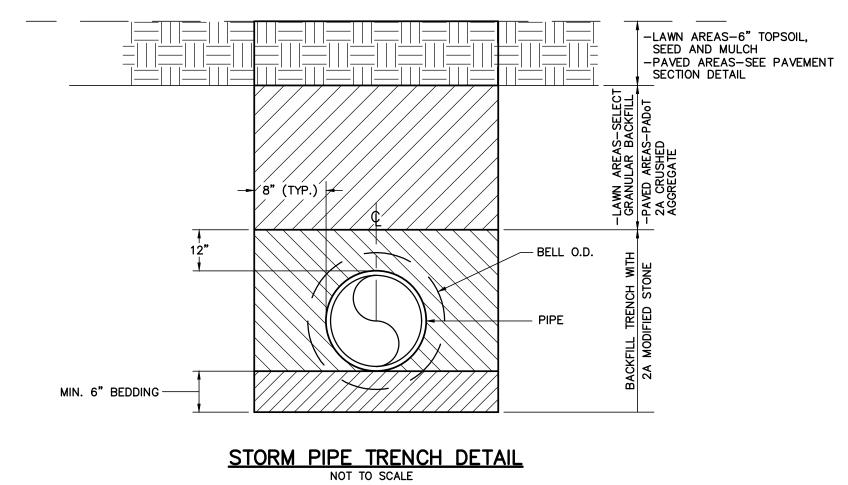


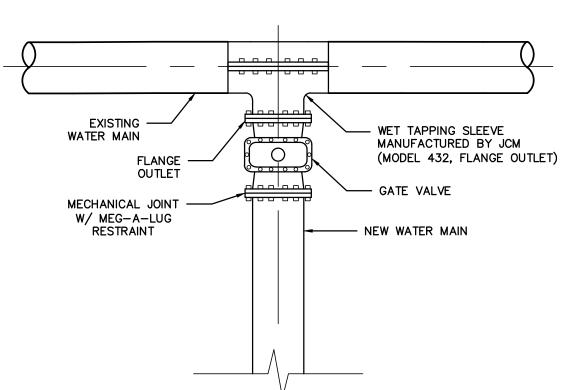


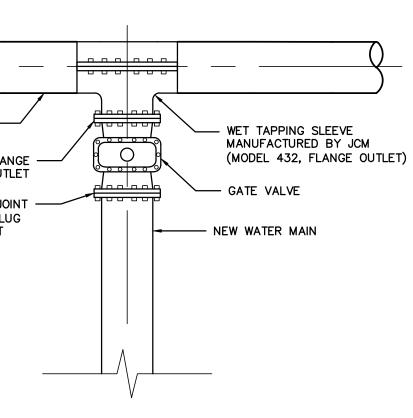
EXISTING MAJOR CONTOURS	S	SANITAR
EXISTING MINOR CONTOURS		STORM I
+225.0 EXISTING SPOT ELEVEVATION		DETECT
TREE LINE	\bowtie	GAS VAL
LEGAL RIGHT-OF-WAY	\bowtie	WATER \
– – ULTIMATE RIGHT-OF-WAY	-0	GUY
— — — — — STORM LINE	\oplus	ELECTRI
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EDGE OF STREAM	\odot	DECIDUC
EXISTING EASEMENT	1	TREE ST
SOIL BOUNDARY	UgB	SOIL LAE
	н	
100 YEAR FLOOD PLAIN		

UTILITY LEGEND

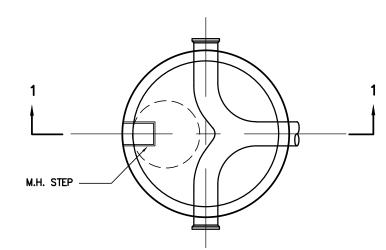
_	PROPOSED WATER LINE
_	PROPOSED SANITARY SEWER LINE
_	PROPOSED ELECTRIC LINE
	PROPOSED MANHOLE
	PROPOSED STORM SEWER
	PROPOSED INLET
	PROPOSED CLEANOUT
	PROPOSED ENDWALL
	PROPOSED RIPRAP

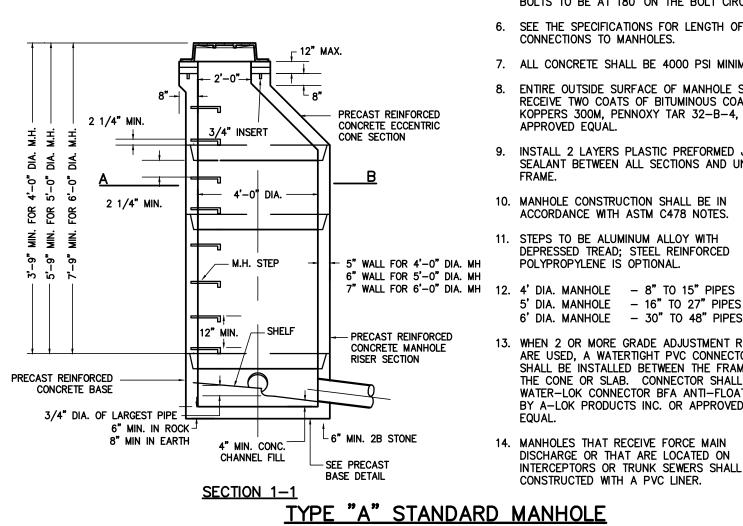




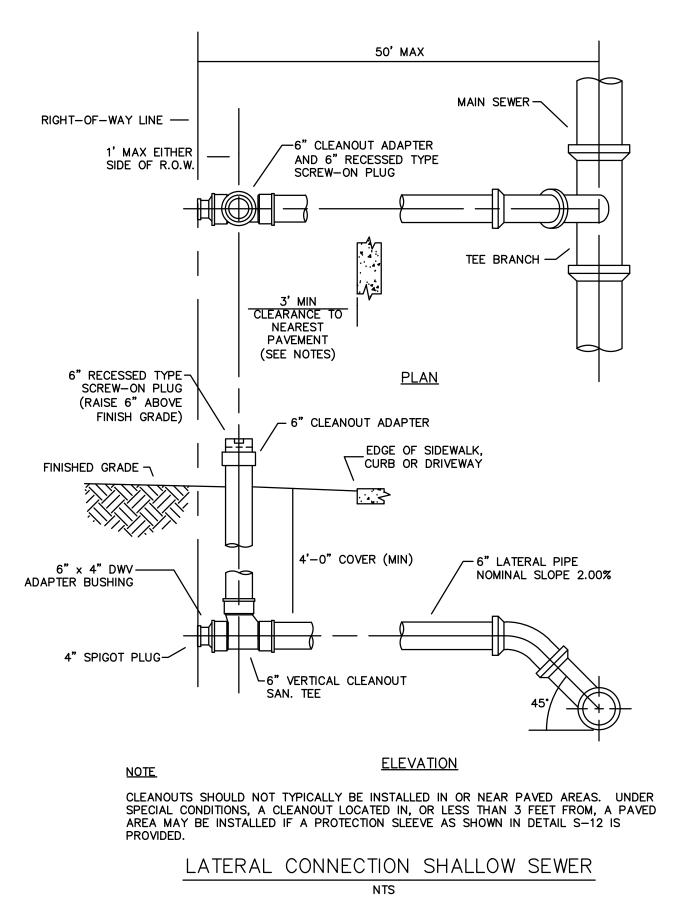








NOT TO SCALE



4.4. PROVANI No Non ADA DA P CONC. RING SUPPORT 0~0 $\sqrt[n]{\Delta}$ CONTACT PIPE) AROUND AND BELOW PROTECTION SLEEVE <u>NOTES:</u> 1. FRAME AND COVER SHALL BE NEENAH FOUNDRY COMPANY MODEL R-1976 OR APPROVED EQUAL 2. CLEANOUT PROTECTION SLEEVES ARE TO BE INSTALLED FOR CLEANOUTS LOCATED IN PAVED AREAS, OR LESS THAN 3 FEET FROM A PAVED AREA. CLEANOUT PROTECTION SLEEVE

NTS

— PIPE DIA + 4"

HEAVY DUTY FRAME & — COVER (H20 RATING)

 $\overline{)}$

SCREW PLUG (RECESSED TYPE)

- WATERTIGHT

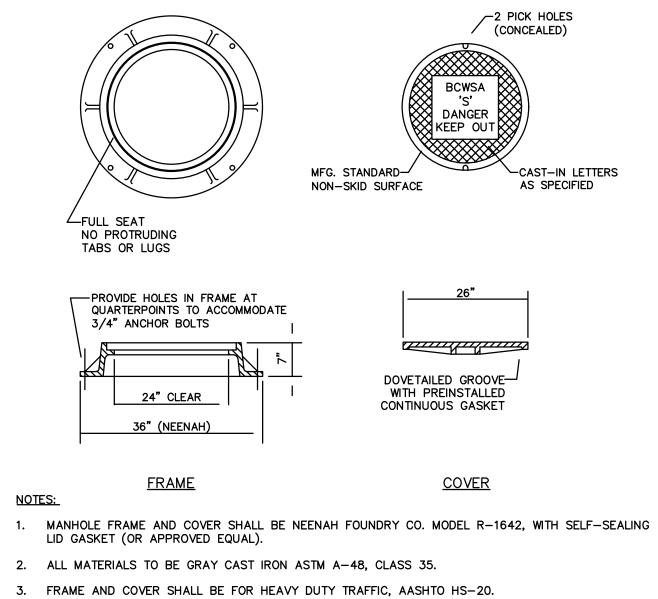
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WATER MAIN CONNECTION TO EXISTING WATER MAIN

NTS

<u>PLAN BELOW LINE A-B</u>

- NOTES: 1. THE DEPTH OF THE INVERT CHANNEL SHALL BE EQUAL TO 3/4 OF THE DIAMETER OF THE SEWER. 2. THE SHELF SHALL SLOPE TOWARD THE INVERT CHANNEL AT A RATE OF 1" PER FOOT.
- 3. TYPE "B" MANHOLES (SHALLOW TYPE) TO BE PROVIDED WHERE REQUIRED BY DEPTH
- CONDITIONS. 4. FOR MANHOLES HAVING 5' DIA. AND 6' DIA. BASE, REDUCTION IN DIAMETER TO 4' SHALL START AT THE FIRST JOINT ABOVE THE UPPERMOST PIPE CONNECTION TO WALL, WHERE DEPTH IS SUFFICIENT.
- 5. ALL MANHOLE FRAMES SHALL BE BOLTED TO THE CONE SECTION OR CONCRETE SLAB WITH 2-3/4" DIA. BOLTS WITH WASHERS AND NUTS. BOLTS TO BE AT 180° ON THE BOLT CIRCLE.
- 6. SEE THE SPECIFICATIONS FOR LENGTH OF PIPE
- 7. ALL CONCRETE SHALL BE 4000 PSI MINIMUM.
- 8. ENTIRE OUTSIDE SURFACE OF MANHOLE SHALL RECEIVE TWO COATS OF BITUMINOUS COATING, KOPPERS 300M, PENNOXY TAR 32-B-4, OR
- 9. INSTALL 2 LAYERS PLASTIC PREFORMED JOINT SEALANT BETWEEN ALL SECTIONS AND UNDER
- 10. MANHOLE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ASTM C478 NOTES.
- 5' DIA. MANHOLE 16" TO 27" PIPES 6' DIA. MANHOLE – 30" TO 48" PIPES
- 13. WHEN 2 OR MORE GRADE ADJUSTMENT RINGS ARE USED, A WATERTIGHT PVC CONNECTOR SHALL BE INSTALLED BETWEEN THE FRAME AND THE CONE OR SLAB. CONNECTOR SHALL BE WATER-LOK CONNECTOR BFA ANTI-FLOATING BY A-LOK PRODUCTS INC. OR APPROVED
- 14. MANHOLES THAT RECEIVE FORCE MAIN DISCHARGE OR THAT ARE LOCATED ON INTERCEPTORS OR TRUNK SEWERS SHALL BE CONSTRUCTED WITH A PVC LINER.

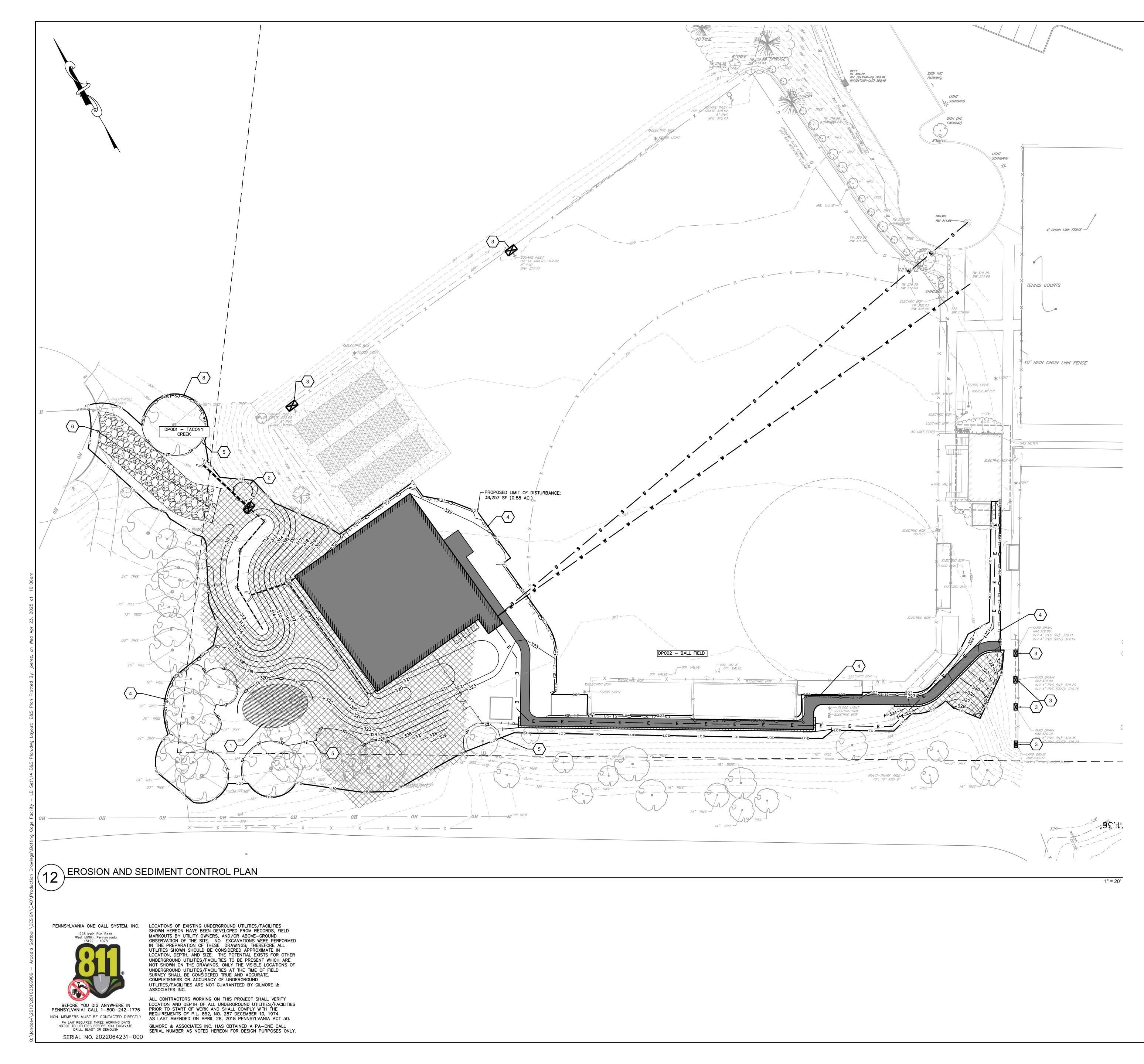


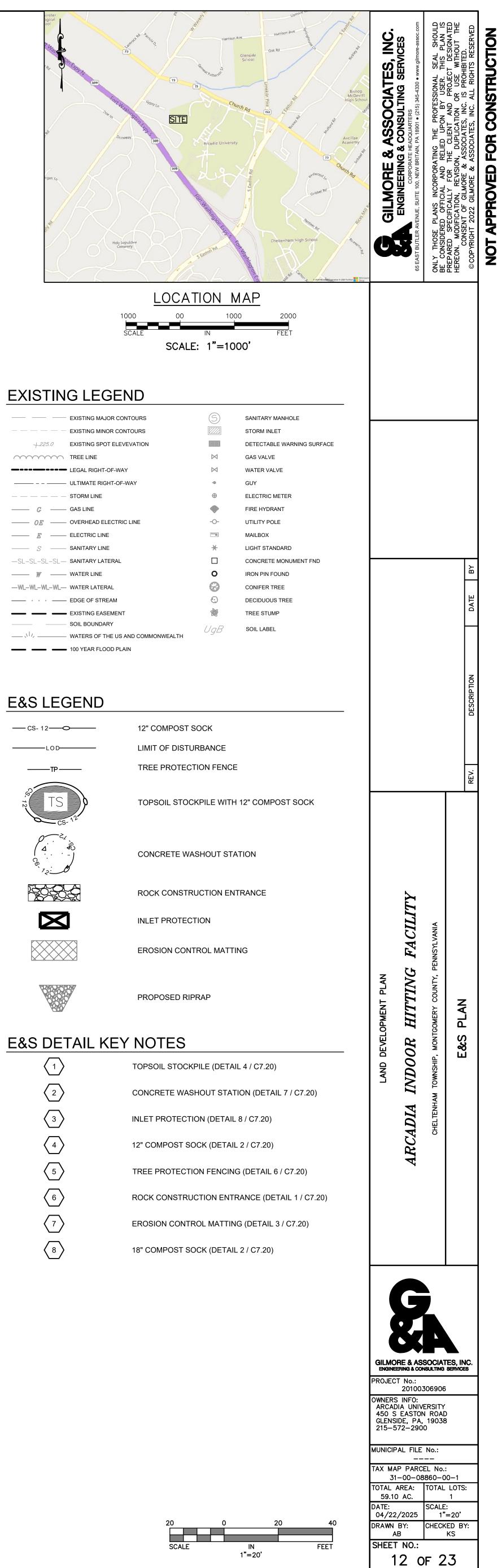
- 3. FRAME AND COVER SHALL BE FOR HEAVY DUTY TRAFFIC, AASHTO HS-20.
- 4. PROVIDE FOUR (4) STAINLESS STEEL ANCHOR BOLTS, 3/4" DIA. MINIMUM.
- 5. COVER SHALL HAVE THE WORDS "BCWSA SANITARY SEWER" OR "BCWSA 'S' DANGER KEEP OUT" CAST THEREON IN 2" LETTERS.
- 6. FRAME AND COVER SHALL BE COATED WITH BLACK ASPHALTIC PAINT.
- 7. THE FOLLOWING MANUFACTURER'S STANDARD CASTING, OR APPROVED EQUAL, SHALL BE USED.

STANDARD MANHOLE FRAME AND COVER NTS

G GILMORE & ASSOCIATES, INC.	65 EAST BUTLER AVENUE, SUITE 100, NEW BRITAIN, PA 18901 • (215) 345-4330 • www.gilmore-assoc.com	ONLY THOSE PLANS INCORPORATING THE PROFESSIONAL SEAL SHOULD BE CONSIDERED OFFICIAL AND RELIED UPON BY USER. THIS PLAN IS	PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. MODIFICATION, REVISION, DUPLICATION OR USE WITHOUT THE CONCENT OF CLIMOPE & ASSOCIATES INC IS DEDUIDITED	© COPYRIGHT 2022 GILMORE & ASSOCIATES, INC. ALL RIGHTS RESERVED	NOT APPROVED FOR CONSTRUCTION
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LAND DEVELOPMENT PLAN	ARCADIA INDOOR HITTING FACILITY	CHELTENHAM TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA	SITE LITILITY DETAILS		
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CAST-IN LETTERS AS SPECIFIED





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E&S LEGEND

12" COMPOST SOCK
LIMIT OF DISTURBANCE
TREE PROTECTION FENCE
TOPSOIL STOCKPILE WITH 12" COMP
CONCRETE WASHOUT STATION
ROCK CONSTRUCTION ENTRANCE
INLET PROTECTION
EROSION CONTROL MATTING
PROPOSED RIPRAP
NOTES

	TOPSOIL STOCKPILE (DETAIL 4 / C7.2
$\langle 2 \rangle$	CONCRETE WASHOUT STATION (DET
$\langle 3 \rangle$	INLET PROTECTION (DETAIL 8 / C7.20)
$\langle 4 \rangle$	12" COMPOST SOCK (DETAIL 2 / C7.20
$\left< \frac{5}{5} \right>$	TREE PROTECTION FENCING (DETAIL
6	ROCK CONSTRUCTION ENTRANCE (D
$\langle 7 \rangle$	EROSION CONTROL MATTING (DETAI
8	18" COMPOST SOCK (DETAIL 2 / C7.20

	COSION & SEDIMENT CONTROL NOTES:
1.	ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH TH APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABL AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR T IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AN APPROVAL AT ITS DISCRETION.
2.	AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/O OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLA PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. 4.	AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR T
5.	IMPLEMENTATION. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHE OBJECTIONABLE MATERIAL.
6.	CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECTION UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING A DESCRIBED IN THIS E&S PLAN.
7. 8.	AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EAC STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEE
9. 10	STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMEN POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AN SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH TH
	DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OF WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT
12.	FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED B THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAR FILL DUE TO ANALYTICAL TESTING
13.	FILL DUE TO ANALYTICAL TESTING. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AN REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEDING, REMULCHING AN RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, O
14.	MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WER CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME O
15.	INSPECTION. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END O EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHE SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
16. 17.	ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES 6 TO 12 INCHES ON COMPACTE SOILS PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIC TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
	ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATI PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
20.	ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIA THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
22.	FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AN
	SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR A OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHA STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED A DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED
26.	ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANEN NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPAB
	OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UN THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
	UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, T OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR REMOVAL/CONVERSION OF THE E&S BMPS.
29.	AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED (CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT SCM. AREAS DISTURBED DURING REMOVAL (CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREA SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
	UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, T OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATION
32.	CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVAN CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION. PERMITTEES AND CO-PERMITTEES ARE RESPONSIBLE FOR ENSURING THAT A LICENSED PROFESSIONAL HAS OVERSIG
	RESPONSIBILITIES FOR THE DESIGN AND PROPER INSTALLATION OF SCMS IDENTIFIED IN THE PCSM PLAN PRIOR TO THE SUBMISSION OF THE NOTICE OF TERMINATION FOR THIS PERMIT. THE LICENSED PROFESSIONAL SHALL CERTIFY THAT THE SCMS IDENTIFIED THE PLAN HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLAN. THE INSTALLATION SCHEDULE OF PCSM SCMS AN MAINTENANCE REQUIREMENTS CONTAINED WITHIN THE APPROVED PCSM PLAN MUST BE FOLLOWED; AND FAILURE TO COMPLY WITH INSTALLATION SCHEDULE IS A VIOLATION OF THIS PERMIT, THE CLEAN STREAMS LAW, AND THE CLEAN WATER ACT.
M/	AINTENANCE OF FACILITIES:
2.	COMPOST SOCK SHOULD BE INSPECTED AND MAINTAINED ON A DAILY BASIS. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE MAINTAINED PROPERLY. MAINTENANCE MU INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. A PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDII REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S CONTROL BMPS FAIL TO PERFORM AS EXPECT REPLACEMENT BMPS OR MODIFICATIONS OF INSTALLED MEASURES WILL BE REQUIRED.
4.	SEDIMENT MUST BE REMOVED FROM STORM WATER INLET PROTECTION AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL HAVE AVAILABLE WATER TRUCKS OR OTHER MEANS OF CONTROLLING EXCESSIVE DUST AND AIRBOF DEBRIS.
5.	ALL AREAS OF CONCENTRATED SURFACE DRAINAGE SHALL BE SEEDED AND MULCHED, AND PROTECTED WITH TEMPORARY TU REINFORCEMENT MAT: NORTH AMERICAN GREEN #SC150 (OR EQUAL). IF AREAS ARE TO BE SODDED, TURF REINFORCEMENT IS N REQUIRED.
6.	REQUIRED. SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEEDED. A BURLAP OR STR COVER WILL BE APPLIED TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY.
	THE ABOVE PROCEDURE SHALL BE REPEATED AFTER EACH SIZABLE STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. MONTHLY INTERVALS THEREAFTER, INSPECTIONS AND NECESSARY CLEANING WILL BE DONE. TRASH THAT IS REMOVED FROM ANY THE CONTROL DEVICES SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL AREA. SILT THAT HAS ACCUMULATED SHALL BE REMOV AND ALLOWED TO DRY AND USED AS FILL WHEREVER REQUIRED ON THE SITE.
8.	IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/ SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE MEASURES TO ADDRESS SAID CIRCUMSTANCES.
ш	ILITY LINE TRENCH EXCAVATION NOTES:

UTILITT LINE TRENCH EXCAVATION NOTES:

- LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION, AND BACKFILLING WILL BE
- SELF-CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING, SITE RESTORATION, AND STABILIZATION OPERATIONS. ALL SOIL EXCAVATED FROM THE TRENCH WILL BE PLACED ON THE UPHILL SIDE OF THE TRENCH. LIMIT DAILY EXCAVATION LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION, AND BACKFILLING THAT CAN BE COMPLETED THE SAME 4
- DAY WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/ OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.

WITH THE VAILABLE RIOR TO /IEW AND

SEQUENCE OF CONSTRUCTION:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED, UNLESS NOTED OTHERWISE. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. NOTE: CESSATION OF CONSTRUCTION ACTIVITIES FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.

AT LEAST 7 DAYS PRIOR TO START OF WORK OR EARTH DISTURBANCE ACTIVITIES, A PRECONSTRUCTION MEETING SHALL BE HELD INCLUDING THE OWNER, SITE CONTRACTOR, TOWNSHIP ENGINEER, MONTGOMERY COUNTY CONSERVATION DISTRICT, AND A LICENSED PROFESSIONAL.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

1. INSTALL STAKE OUT LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS. INSTALL COMPOST FILTER SOCK AS SHOWN ON THE PLANS.

1.1. FILTER SOCKS SHALL BE CHECKED DAILY AT THE BEGINNING OF THE WORK DAY. REPLACEMENT SOCKS IN KIND SHALL BE PROVIDED IF DAMAGED OR NOT FUNCTIONING PROPERLY. 2. INSTALL ALL TREE PROTECTION FENCING AS SHOWN ON THE PLANS PRIOR TO INITIATION OF EARTH DISTURBANCE ACTIVITIES. TREE PROTECTION FENCING SHALL BE CHECKED DAILY AT THE BEGINNING OF THE WORK DAY. REPLACEMENT FENCING IN KIND SHALL BE PROVIDED IF DAMAGED OR NOT FUNCTIONING PROPERLY.

INSTALL ROCK CONSTRUCTION ENTRANCE WHERE INDICATED ON THE PLANS, AND ALL OTHER EROSION AND SEDIMENT CONTROLS INDICATED ON PLAN. A. EXISTING VEGETATION SHALL BE CUT TO GROUND AS NECESSARY PRIOR TO INSTALLATION OF COMPOST FILTER SOCK TO ENSURE CONTACT WITH EARTH. LOOSE COMPOST OR

EARTHEN MATERIAL SHALL BE BLOWN OR PLACED INTO UPSTREAM SIDE TO MINIMIZE UNDERMINING. B. NO DEMOLITION OR EARTH DISTURBANCE SHOULD OCCUR IN ANY AREA UNTIL PERIMETER SEDIMENT CONTROLS HAVE BEEN INSTALLED.

- 4. CLEAR AND GRUB REMAINDER OF THE CONSTRUCTION AREA AND TREES AS DELINEATED ON THE PLAN. DISTURBED AREAS AREA TO BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH. RELOCATE ANY SITE FEATURES THAT ARE PROPOSED TO BE RELOCATED AS SHOWN ON THE DEMOLITION PLAN.
- STRIP AND STOCKPILE TOPSOIL WHERE INDICATED ON THE PLANS. STOCKPILE SHALL BE IMMEDIATELY STABILIZED UPON CONSOLIDATION. COMPOST FILTER SOCK SHALL BE IN STALLED AROUND PERIMETER OF SOIL STOCKPILE ON THE DOWNSLOPE SIDE. IMMEDIATELY APPLY TEMPORARY SEEDING AND MULCH TO THE STOCKPILE. 6. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
- 7. ALL EROSION CONTROL DEVICES SHALL BE CHECKED WEEKLY (OR DAILY IF SPECIFIED) AND AFTER EACH RAIN EVENT. ALL PREVENTATIVE REMEDIAL MAINTENANCE WORK INCLUDING
- REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, REMULCHING, AND RENETTING SHALL BE PERFORMED IMMEDIATELY. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF RUNOFF OR SEDIMENT DISPLACEMENT. SPECIAL ATTENTION SHALL BE GIVEN TO FROZEN SLOPES. STOCKPILES OF WOOD CHIPS, HAY BALES CRUSHED STONE, AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- 9. INSTALL CONCRETE WASHOUT AS SHOWN ON PLANS. 10. ROUGH GRADE SITE. CONTRACTOR TO ADJUST UPSLOPING PORTIONS OF THE ALL COMPOST FILTER SOCKS TO ACCOUNT FOR ELEVATION CHANGES FROM EXISTING TO PROPOSED LAND SLOPES. SOCKS SHALL BE CHECKED FOR DAMAGE AND RESTAKED TO ENSURE PROPER FUNCTIONALITY. INSTALL PROPOSED DRAINAGE SWALES AS SHOWN ON THE PLANS. INSTALL EROSION CONTROL SLOPE AND SWALE MATTING AS SHOWN ON THE PLANS.
- 11. NO IMPERVIOUS SURFACES SHALL BE CREATED UNTIL THE PROPOSED STORMWATER CONTROL MEASURE (SCM) IS INSTALLED AND PROPERLY FUNCTIONING. 12. RUNOFF SHALL NOT BE DIRECTED TO THE PROPOSED RAIN GARDEN SCM UNTIL ALL TRIBUTARY DRAINAGE AREAS ARE STABILIZED.
- 13. CRITICAL STAGE: EXCAVATE AND INSTALL RAIN GARDEN SCM. EXCAVATE TO BED INFILTRATION ELEVATION. INSTALL EROSION CONTROL BLANKETS PER PLAN. 13.1. CONSTRUCTION MACHINERY SHALL NOT BE DRIVEN OVER THE INFILTRATION AREA TO PREVENT COMPACTION OF SOILS. CARE SHALL BE TAKEN TO NOT COMPACT THE SOILS
- AROUND THE INFILTRATION AREA DURING ANY AND ALL OTHER CONSTRUCTION ACTIVITIES. 13.2. INSTALL ORANGE CONSTRUCTION FENCE AROUND THE RAIN GARDEN SCM AREA WHERE SHOWN ON THE PLANS TO PREVENT COMPACTION DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION FENCE SHALL REMAIN IN PLACE FOR THE RAIN GARDEN SCM UNTIL ALL DRAINAGE AREAS TO SCM ARE COMPLETELY STABILIZED. 14. INSTALL STORM PIPING AND ASSOCIATED STORM STRUCTURES AS SHOWN ON PLAN, BEGINNING WITH THE FURTHEST DOWNSTREAM CONNECTION/STRUCTURE.
- 14.1. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON THE PROJECT SITE DURING INSTALLATION OF THESE SCMs. 15. CONTRACTOR SHALL CONTACT THE MONTGOMERY COUNTY CONSERVATION DISTRICT (MCCD) THREE (3) DAYS PRIOR TO FINAL RAIN GARDEN STABILIZATION FOR THE PURPOSES OF INSPECTION OF SAID STABILIZATION.
- 16. INSTALL DIRECT DRILLED SEWER AND WATER SERVICE AND ELECTRIC SERVICE LINES ON SITE. STABILIZE AREAS AS NECESSARY.
- 17. BEGIN INSTALLATION OF PROPOSED BUILDING AND ASSOCIATED FEATURES ON-SITE.
- 17.1. INSTALL RETAINING WALLS AND NEW ASPHALT WALKWAY. INSTALL NEW CONCRETE CONDENSOR PADS OUTSIDE OF BUILDING. INSTALL NEW FENCES, GATES, AND ASSOCIATED FEATURES. 18. ALL RUNOFF FROM THE SITE MUST BE TREATED UNTIL THE SITE IS STABILIZED.
- 19. AS LAWN AREAS ARE BROUGHT TO GRADE, THEY SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 5-12" THEN PROVIDED WITH A MINIMUM 8" OF TOPSOIL AND SEEDED IMMEDIATELY. ALL
 - VEGETATED AREAS SHALL BE STABILIZED WITH VEGETATION AND MULCH AS SOON AS POSSIBLE. A. ALL 4:1 SLOPES OF MORE THAN 6' VERTICAL HEIGHT SHALL BE PROVIDED WITH EROSION CONTROL MATTING IN ACCORDANCE WITH PLANS AND DETAIL 'N.A.G. SLOPE INSTALLATION' B. ALL SWALES AND AREAS OF CONCENTRATED DISCHARGE SHALL BE PROVIDED WITH EROSION CONTROL MATTING IN ACCORDANCE WITH PLANS AND DETAIL 'N.A.G. SWALE INSTALLATION
- 22. FINISH GRADE ALL DISTURBED AREAS THAT ARE NOT SPECIFIED TO BE PAVED OR GRAVEL SHALL BE TOPSOILED AND SEEDED. PLACE 6" OF TOPSOIL IN DISTURBED AREAS, REMOVI UNSUITABLE MATERIAL LARGER THAN 1/2" IN ANY DIMENSION, UNIFORMLY GRADE THE SURFACE TO THE REQUIRED CONTOURS WITHOUT THE FORMATION OF WATER POCKETS, APPLY FERTILIZER AND LIME PER SOIL TESTS AND WORK THEM INTO THE SOIL, THEN IMMEDIATELY SEED FOR PERMANENT STABILIZATION, AND APPLY PROSCAPE PENNMULCH SEED ACCELERATOR MULCH TO ALL SEEDED AREAS (NO STRAW OR HAY). DO NOT BROADCAST OR DROP SEED WHEN WIND VELOCITY EXCEEDS 5MPH.
- 23. PLANT ALL PROPOSED TREES AS SHOWN ON THE LANDSCAPING IN ACCORDANCE WITH THE SPECIFICATIONS NOTED ON THE LANDSCAPING NOTES AND DETAILS PLAN SHEET. 24. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE BOROUGH
- ENGINEER TO SCHEDULE AN INSPECTION. 25. UPON APPROVAL FROM BOROUGH ENGINEER, EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED. IMMEDIATELY STABILIZE ANY AREA DISTURBED BY REMOVAL OF EROSION AND SEDIMENT CONTROLS WITH TOPSOIL AND SEED.

ALL ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN APPROVED UPLAND AREAS. APPLICATION OF LIME AND FERTILIZER FOR TEMPORARY SEEDING IS UNNECESSARY AND ONLY SERVES TO CONTRIBUTE TO AN STABILIZATION SHALL BE CONSIDERED THE PLACEMENT OF BASE COURSE IN PAVED AREAS OR BY 75% OR MORE VEGETATION, UNIFORM COVERAGE, IN LAWN AREAS OR BY OTHER OVERABUNDANCE OF NUTRIENT POLLUTION IN THE WATERSHED PERMANENT MEANS WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

RECYCLING OR DISPOSAL METHODS:

THE FOLLOWING IS A LIST THAT INCLUDES, BUT THAT IS NOT LIMITED TO, THE POTENTIAL CONSTRUCTION WASTES THAT MAY EXIST ON-SITE: - CONCRETE

- ASPHALT - E&S BMP - COMPOST FILTER SOCK
- E&S BMP EROSION CONTROL MATTING
- E&S BMP STONE INLET PROTECTION - E&S BMP - REGULATED FILL MATERIALS
- NATURALLY OCCURRING WASTES: ROCK, VEGETATION, SOIL

WASTE MATERIALS, SCRAP, OR EXCESS CONSTRUCTION MATERIALS SHALL BE COLLECTED, STORED, AND DISPOSED OF IN ACCORDANCE WITH THE SOLID WASTE MANAGEMENT ACT (35 P.S. §§6018.101-6018.1003), THE MUNICIPAL WASTE PLANNING, RECYCLING AND WASTE REDUCTION ACT (53 P.S. §\$4000-101-4000-1904), THE CLEAN STREAMS LAW (35 P.S. §\$691.1-691.1001) AND RELATED RULES AND REGULATIONS (TITLE 25, CHAPTER 105, SECTION 46a).

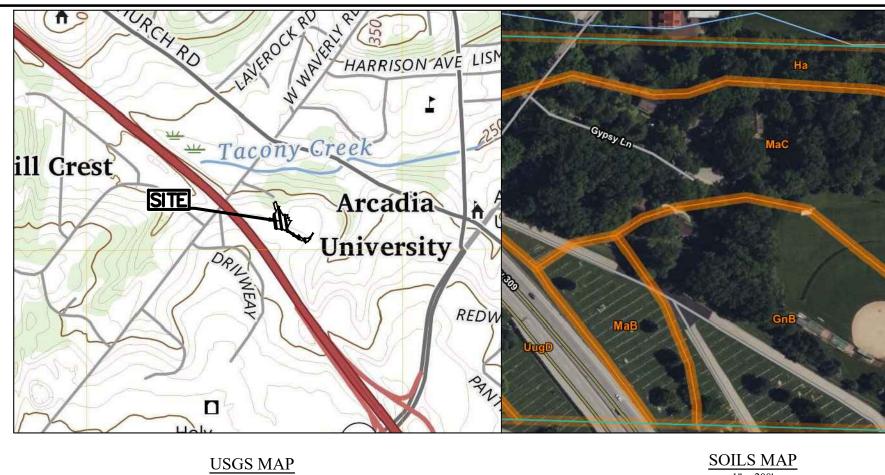
ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID

THE PERMITTEE / CO-PERMITTEE(S) MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND WITHIN 24 HOURS AFTER EACH MEASURABLE RUNOFF EVENT THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE RECEIPT AND WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. AND/OR ANY ADDITIONAL LOCAL, STATE, OR FEDERAL REGULATIONS. ACKNOWLEDGEMENT OF THE NOTICE OF TERMINATION BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE VISUAL SITE INSPECTIONS AND REPORTS SHALL BE COMPLETED IN A FORMAT PROVIDED BY THE DEPARTMENT, AND CONDUCTED BY QUALIFIED NO BUILDING MATERIALS OR WASTES (USED OR UNUSED) SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. BELOW IS A LIST OF METHODS FOR PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT E&S BMPS AND PCSM SCMs ARE THE PROPER RECYCLING/DISPOSAL OF VARIOUS MATERIALS: PROPERLY CONSTRUCTED AND MAINTAINED TO EFFECTIVELY MINIMIZE POLLUTION TO THE WATERS OF THE COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE AT A MINIMUM:

- 1. DUST CONTROL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE AT THE STABILIZED CONSTRUCTION ENTRANCE. THE PURPOSE IS TO TRAP DUST AND MUD THAT WOULD OTHERWISE BE CARRIED OFF-SITE BY CONSTRUCTION TRAFFIC. WATER TRUCKS WILL BE USED AS NEEDED DURING CONSTRUCTION TO REDUCE DUST GENERATED ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE CONTRACTOR TO A DEGREE THAT IS ACCEPTABLE TO THE LOCAL CONSERVATION DISTRICT. AFTER CONSTRUCTION, THE SITE WILL BE STABILIZED, WHICH WILL REDUCE THE POTENTIAL FOR DUST GENERATION.
- 2. WATER SOURCE NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION WHICH DISCHARGES FROM THE SITE MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE STATE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE
- 3. CONCRETE WASTE FROM CONCRETE READY-MIX TRUCKS DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS WILL BE ALLOWED ON THE CONSTRUCTION SITE, BUT ONLY IN SPECIFICALLY DESIGNATED DIKED AREAS PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH WATER AND STORMWATER THAT WILL BE DISCHARGED FROM THE SITE.

RESPONSIBILITES FOR FILL MATERIALS:

- THE OPERATOR MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT ANY NECESSARY FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL. ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH PADEP'S POLICY "MANAGEMENT OF FILL", DOCUMENT NUMBER 258-2182-773. A COPY OF THIS POLICY IS AVAILABLE ONLINE AT WWW.DEPWEB.STATE.PA.US.
- CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSED, INERT, SOLID MATERIAL, THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL. USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM THE WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE).
- CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN PADEP'S POLICY "MANAGEMENT OF FILL"
- 4. ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE PADEP FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL. A COPY OF FORM FP-001 CAN BE FOUND AT WWW.DEPWEB.STATE.PA.US. ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE
- SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREEN, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.
- ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF PADEP'S POLICY "MANAGEMENT OF FILL".
- 7. FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE MUNICIPAL OR RESIDUAL WASTE REGULATIONS IN 25 PA CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT WHICHEVER IS APPLICABLE.
- ALL FILLS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SUPPING, EROSION OR EXCESS SATURATION.



1'' = 1,000'§102.4(b)(5)(i)

 $\frac{\text{SOILS MAP}}{1" = 200'}$ §102.4(b)(5)(ii)

TEMPORARY AND PERMANENT SEEDING NOTES:

TEMPORARY SEEDING SPECIFICATION FORMULA E - ANNUAL RYE GRASS

SITE PREPARATION, STABILIZATION AND MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH PENN STATE UNIVERSITY'S "THE AGRONOMY GUIDE" AND PENNDOT FORM 408 SPECIFICATIONS' MOST RECENT ADDITION.

PERMANENT SEEDING SPECIFICATION FORMULA B -60% TALL FESCUE 10% KENTUCKY BLUEGRASS

30% PERENNIAL RYEGRASS

STEEP SLOPE SEEDING SPECIFICATION FORMULA W 80% TALL FESCUE 10% KENTUCKY BLUEGRASS

10% PERENNIAL RYEGRASS

SEEDING RATE FOR THE ABOVE MIXTURES: 10 LBS/1,000 SY FOR TEMPORARY SEEDING 21 LBS/1,000 SY FOR PERMANENT SEEDING 21 LBS/1,000 SY FOR STEEP SLOPE SEEDING (SEE NOTE 5)

- HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATES OF AT LEAST 3.0 TONS PER ACRE AND SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER.
- PULVERIZED AGRICULTURAL LIMESTONE AND COMMERCIAL FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS WHICH ARE TO BE SEEDED EXCEPT FOR TEMPORARY SEED AREAS ARE THE FOLLOWING RATES:

PULVERIZED AGRICULTURAL LIMESTONE -90 LBS/1,000 SF 10-20-20 ANALYSIS COMMERCIAL FERTILIZER - 20 LBS/1.000 SF

NOTE

- PERMANENT SEEDING SHALL TAKE PLACE FROM MARCH 15 TO JUNE 1 OR FROM AUGUST 1 TO OCTOBER 15. IF COMPLETED AT IN OTHER SEASONS, AREAS SHALL RECEIVE TEMPORARY SEEDING AND 3.0 TONS PER ACRE MULCH.
- STEEP SLOPE AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED FOR PARTICULAR METHOD AND SPECIFIC SITE CONDITIONS

FLEXIBLE GROWTH MEDIUM: SHALL BE HYDRAULICALLY APPLIED COMBINATION OF SEED, MULCH, AND EROSION PROTECTION MATERIAL SIMILAR TO "FLEXTERRA" BY ACF OR EQUAL BY OTHER MANUFACTURER.

EROSION CONTROL MATTING: SHALL BE TEMPORARY MATTING SIMILAR TO SC350 BY NORTH AMERICAN GREEN OR EQUAL BY OTHER MANUFACTURER.

MONITORING, INSPECTION AND REPORTING REQUIREMENTS:

VISUAL INSPECTIONS

1. A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP IMPLEMENTATION AND MAINTENANCE, AND COMPLIANCE ACTIONS; AND

2. THE DATE, TIME, NAME, AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

NONCOMPLIANCE REPORTING WHERE E&S, PCSM OR PPC BMPS ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE PERMITTEE / CO-PERMITTEE(S) SHALL, WITHIN 24 HOURS, CONTACT THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT, BY PHONE OR PERSONAL CONTACT. FOLLOWED BY THE SUBMISSION OF A WRITTEN REPORT WITHIN 5 DAYS OF THE INITIAL CONTACT. NONCOMPLIANCE REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- 1. ANY CONDITION ON THE PROJECT SITE WHICH MAY ENDANGER PUBLIC HEALTH, SAFETY, OR THE ENVIRONMENT, OR INVOLVE INCIDENTS WHICH CAUSE OR THREATEN POLLUTION;
- 2. THE PERIOD OF NONCOMPLIANCE, INCLUDING EXACT DATES AND TIMES AND/OR ANTICIPATED TIME WHEN THE ACTIVITY WILL **RETURN TO COMPLIANCE:**
- 3. STEPS BEING TAKEN TO REDUCE, ELIMINATE, AND PREVENT RECURRENCE OF THE NONCOMPLIANCE; AND

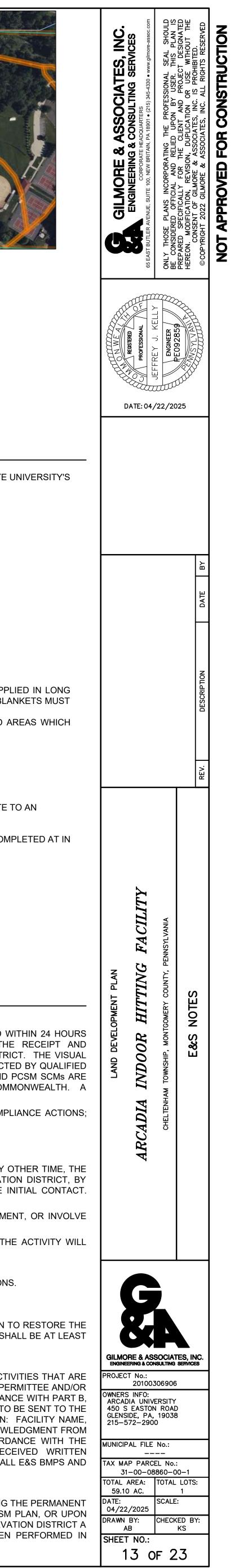
THE DATE OR SCHEDULE OF DATES, AND IDENTIFYING REMEDIES FOR CORRECTING NONCOMPLIANCE CONDITIONS.

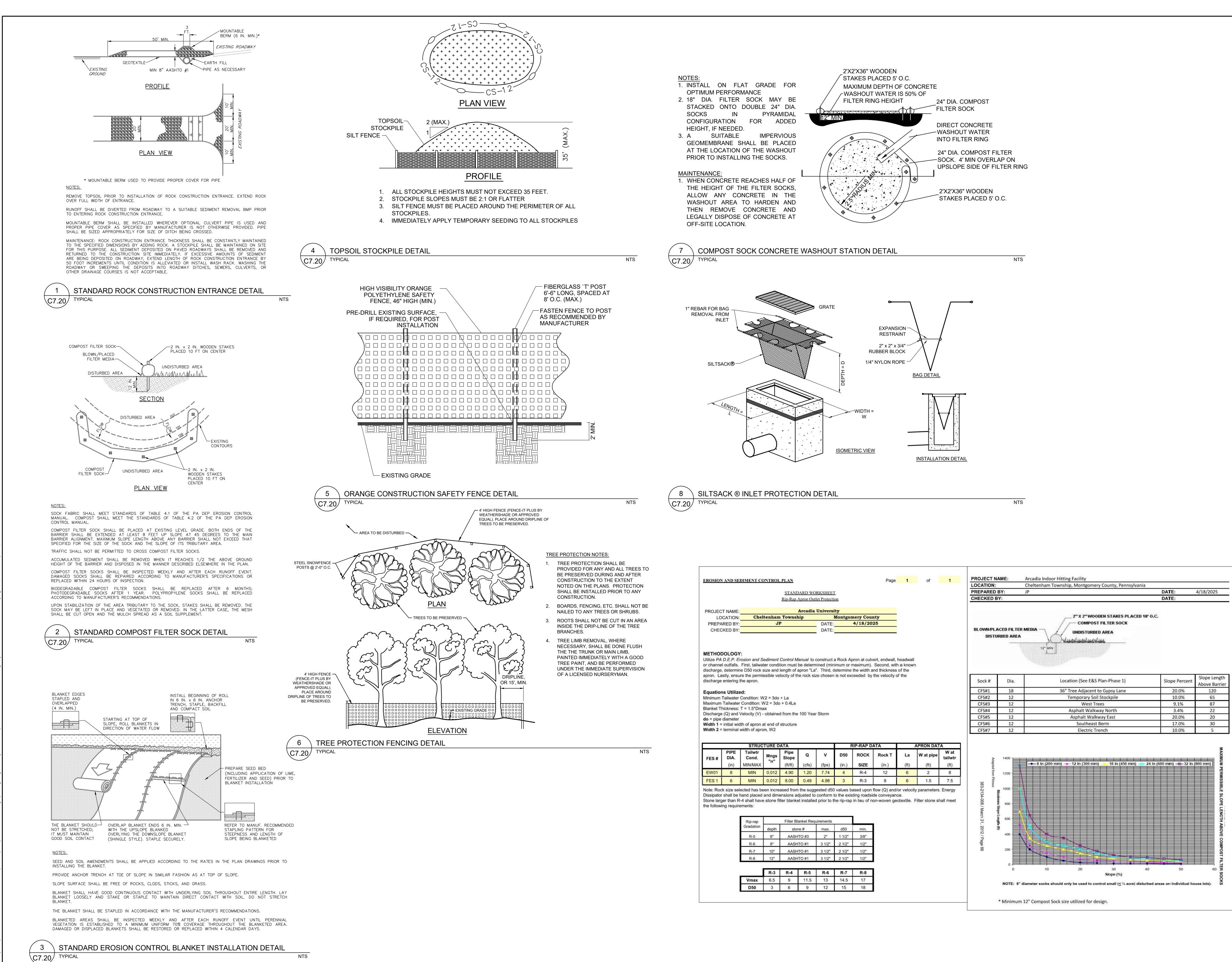
REDUCTION, LOSS, OR FAILURE OF THE BMPS

UPON REDUCTION, LOSS, OR FAILURE OF THE BMPS, THE PERMITTEE / CO-PERMITTEE SHALL TAKE IMMEDIATE ACTION TO RESTORE THE BMPS OR PROVIDE AN ALTERNATIVE METHOD OF TREATMENT. SUCH RESTORED BMPS OR ALTERNATIVE TREATMENT SHALL BE AT LEAST AS EFFECTIVE AS THE ORIGINAL BMPS. TERMINATION OF COVERAGE

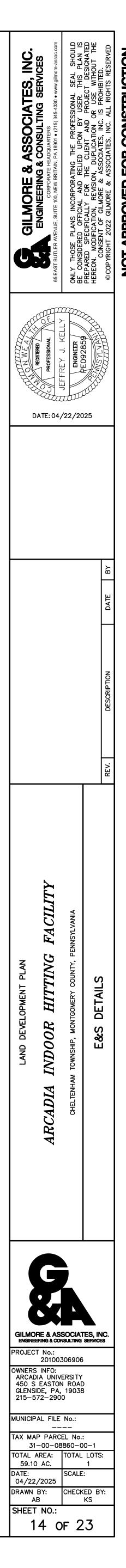
NOTE: UPON PERMANENT STABILIZATION OF EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THIS PERMIT AND WHEN SCMs IDENTIFIED IN THE PCSM PLAN HAVE BEEN PROPERLY INSTALLED, THE PERMITTEE AND/OR CO-PERMITTEE OF THE FACILITY MUST SUBMIT A NOTICE OF TERMINATION (N.O.T.) FORM THAT IS SIGNED IN ACCORDANCE WITH PART B. SECTION 1.C, SIGNATORY REQUIREMENTS, OF THIS PERMIT. ALL LETTERS CERTIFYING DISCHARGE TERMINATION ARE TO BE SENT TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE N.O.T. MUST CONTAIN THE FOLLOWING INFORMATION: FACILITY NAME, ADDRESS, AND LOCATION, OPERATOR NAME AND ADDRESS, PERMIT NUMBER, IDENTIFICATION AND PROOF OF ACKNOWLEDGMENT FROM THE PERSON(S) WHO WILL BE RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE PCSM SCMs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, AND THE REASON FOR PERMIT TERMINATION. UNTIL THE PERMITTEE HAS RECEIVED WRITTEN ACKNOWLEDGEMENT OF THE N.O.T., THE PERMITTEE WILL REMAIN RESPONSIBLE FOR OPERATING AND MAINTAINING ALL E&S BMPS AND PCSM SCMs ON THE PROJECT SITE AND WILL BE RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE. COMPLETION CERTIFICATE AND FINAL PLANS

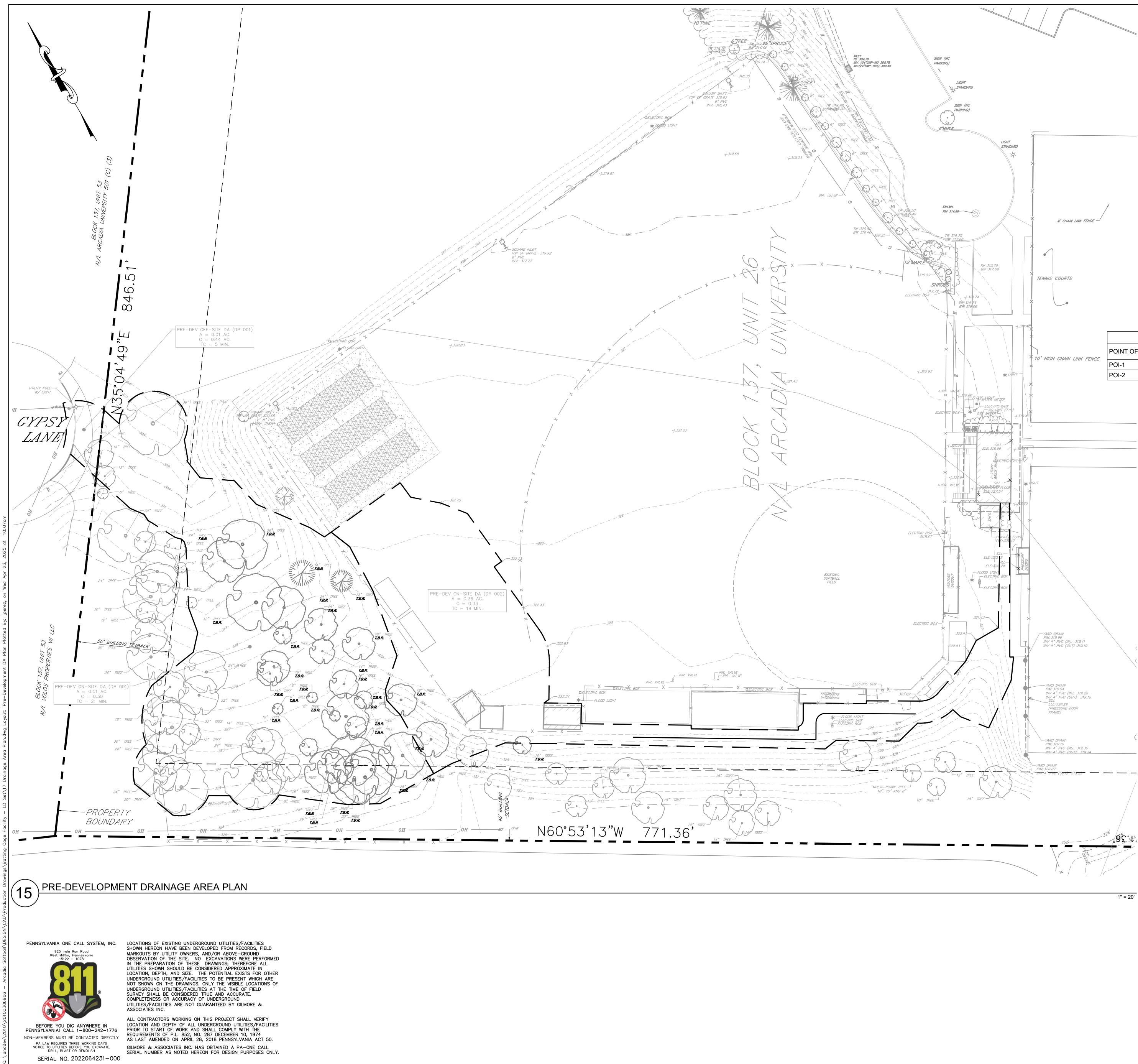
WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM SCMs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE N.O.T. IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS.

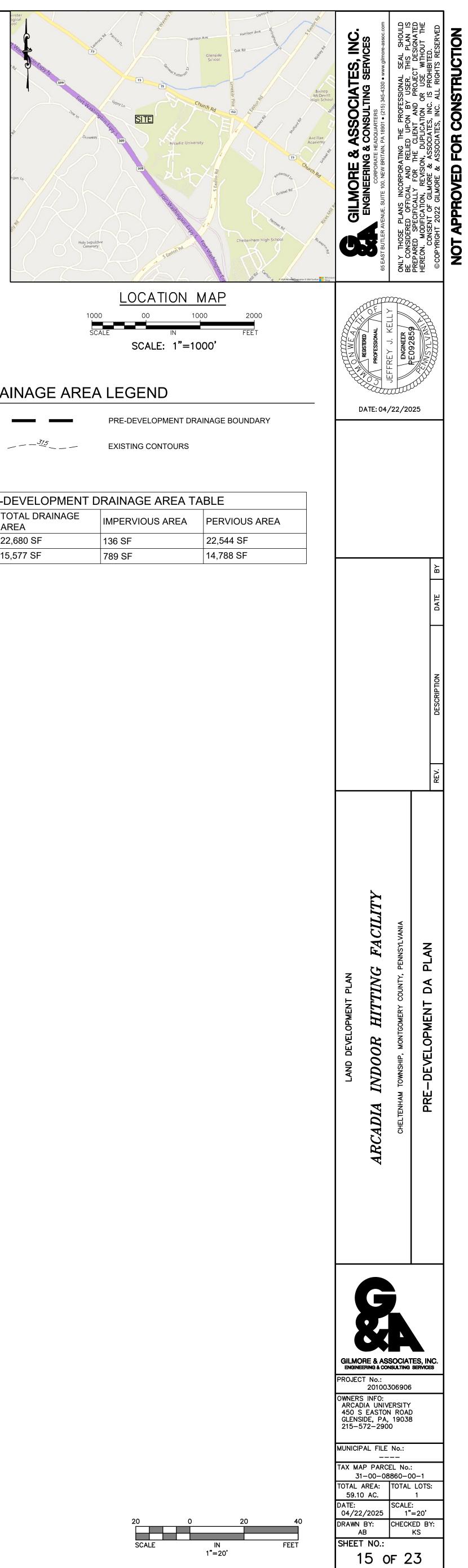




Rip-rap		Filter Bl	anket Req	uirements		
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R-5	6"	AASH	ITO #3	2"	1 1/2"	3/8
R-6	8"	AASH	ITO #1	3 1/2"	2 1/2"	1/2
R-7	10"	AASH	ITO #1	3 1/2"	2 1/2"	1/2
R-8	12"	AASH	ITO #1	3 1/2"	2 1/2"	1/2
63	R-3	R-4	R-5	R-6	R-7	R-
Vmax	6.5	9	11.5	13	14.5	17
VIIIdA			9	12	15	18

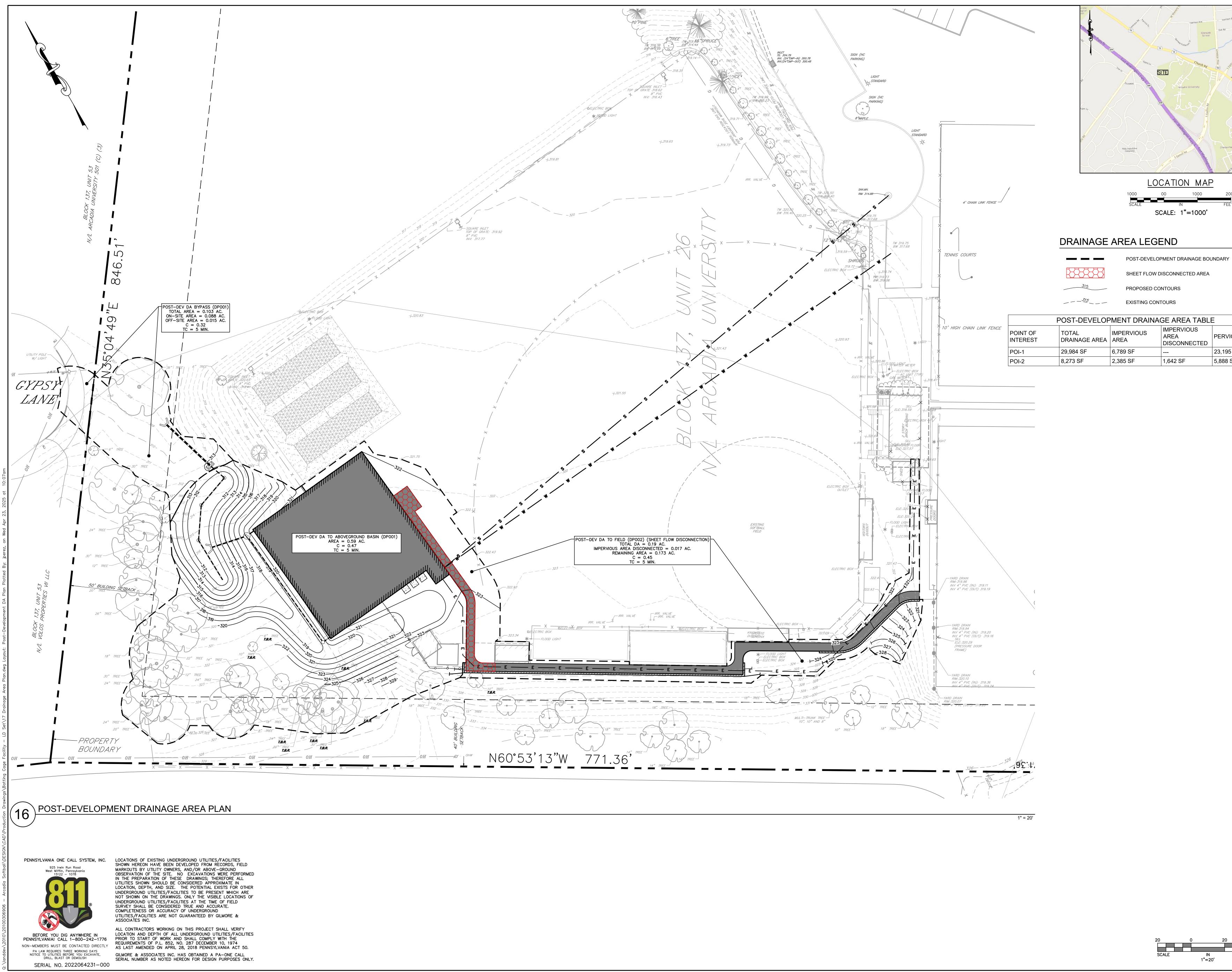


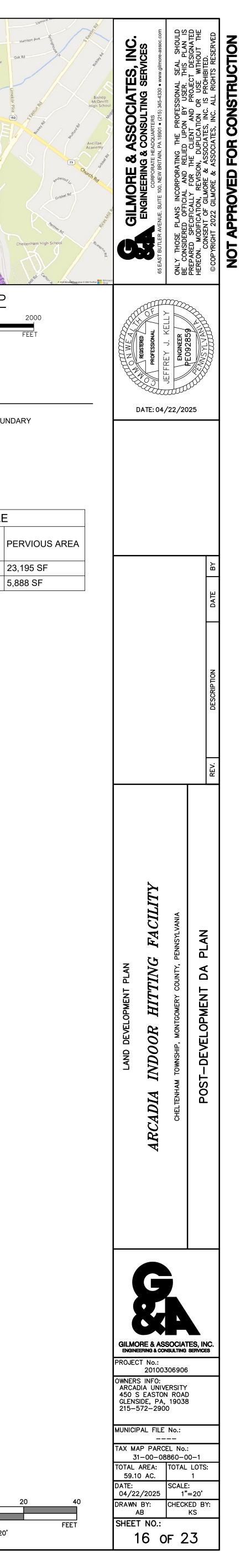


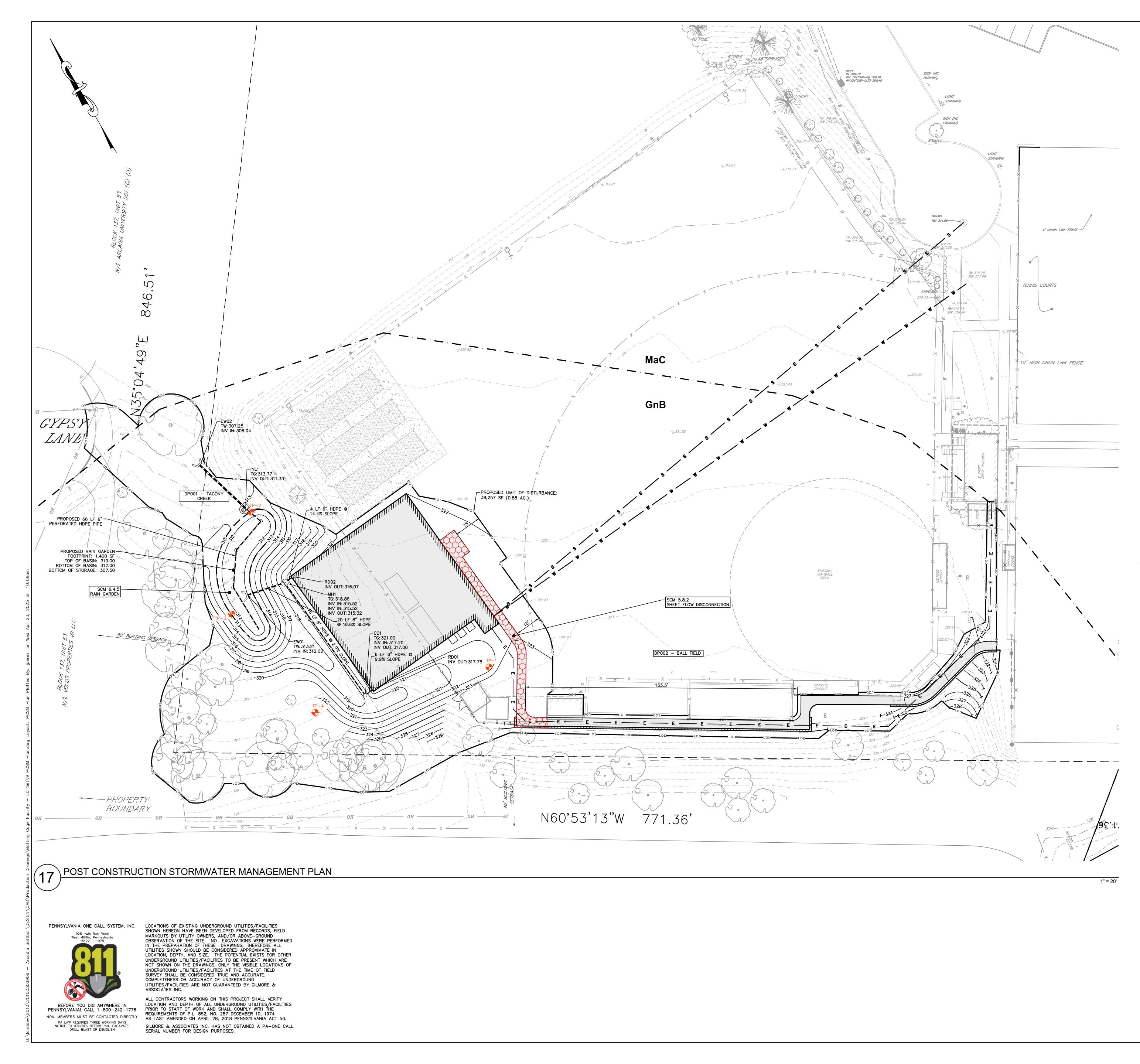


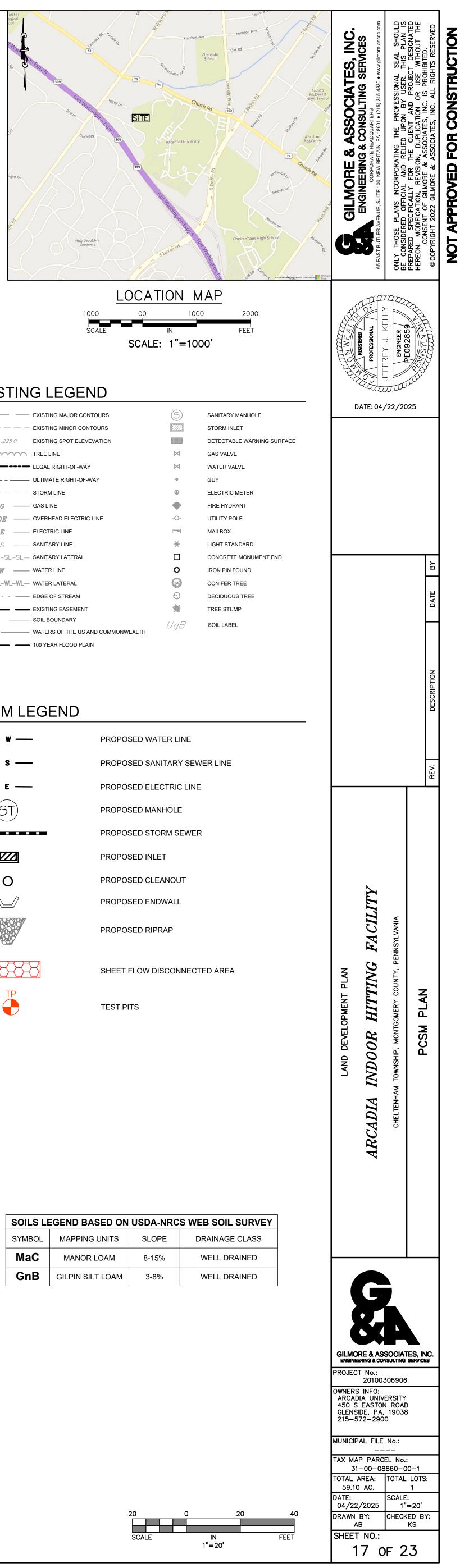
DRAINAGE AREA LEGEND

PRE-DEVELOPMENT DRAINAGE AREA TABLE						
POINT OF INTEREST	TOTAL DRAINAGE AREA	IMPERVIOUS AREA	PERV			
POI-1	22,680 SF	136 SF	22,544			
POI-2	15,577 SF	789 SF	14,788			









EXISTING MAJOR CONTOURS	S	SANITAR
EXISTING MINOR CONTOURS		STORM I
+225.0 EXISTING SPOT ELEVEVATION		DETECT
TREE LINE	\bowtie	GAS VAL
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PCSM LEGEND

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— Е —	PROPOSED ELECTRIC LINE
ST	PROPOSED MANHOLE
	PROPOSED STORM SEWER
	PROPOSED INLET
0	PROPOSED CLEANOUT
	PROPOSED ENDWALL
	PROPOSED RIPRAP
	SHEET FLOW DISCONNECTED ARE
	TEST PITS

SOILS LEGEND BASED ON USDA-NRCS WEB SOI			
SYMBOL	MAPPING UNITS	SLOPE	DRAINAG
MaC	MANOR LOAM	8-15%	WELL D
GnB	GILPIN SILT LOAM	3-8%	WELL D

GENERAL PCSM NOTES:

- 1. SOILS INFORMATION TAKEN FROM USDA-NRCS "WEB SOIL SURVEY OF MONTGOMERY COUNTY".
- 2. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO THE START OF WORK AND SH COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON OCTOBER 9, 2008, PENNSYLVANIA ACT 121. GILMORE & ASSOCIATES INC. I OBTAINED PA-ONE CALL SERIAL NUMBER(S) AS NOTED ON THIS PLAN FOR DESIGN PURPOSES ONLY.
- ALL CONTRACTORS WORKING ON THE PROJECT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THE PROJECT ARE PERFORMEN ACCORDANCE WITH ALL APPLICABLE OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS.
- 4. ALL CONSTRUCTION REQUIREMENTS AND MATERIAL SPECIFICATIONS SHALL BE IS ACCORDANCE WITH THE STANDARDS AND DETAILS OF CHELTENHAM TOWNSHIP SUBDIVIS AND LAND DEVELOPMENT ORDINANCES, PADEP AND/OR PENNDOT FORM 408, LATEST EDITION, AND PA-UCC WHERE APPLICABLE.
- CONTRACTOR SHALL NOT ENCROACH ONTO ADJOINING PROPERTIES UNLESS A TEMPORARY CONSTRUCTION EASEMENT HAS BEEN GRANTED BY THE ADJOINING PROPEI OWNER. CONTRACTOR SHALL HAVE PROPERTY LINES CLEARLY MARKED IN AREAS WHERE GRADING WILL ENCROACH WITHIN FIVE FEET OF THE PROPERTY LINE AND SH
- CONSTRUCT SUCH BARRIERS WHICH ARE NECESSARY TO PREVENT ENCROACHMENT ONTO ADJOINING PROPERTIES. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARDS FOR SUBSURFACE DRAIN OR OTHER APPRON METHOD.
- ANY SLOPE GREATER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SHALL RECEIVE A STEEP SLOPE SEED MIXTURE AND BE PROTECTED WITH EROSION CONTROL MATT BY NORTH AMERICAN GREEN OR APPROVED EQUAL. SEE EROSION & SEDIMENT CONTROL PLANS FOR DETAILS AND LOCATIONS.
- 8. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVI SATISFACTORY COMPACTION.
- 9. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE REDISTRIBUTED OVER ALL DISTURBED AREAS OF THE SITE, WITH THE EXCEPTION OF PAVED AND PROPOSED BUILD AREAS. SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 5-12" PRIOR TO SPREADING OF TOPSOIL.
- 10. BURYING OF CONSTRUCTION DEBRIS AND STUMPS ON THE SITE IS PROHIBITED. 11. PROJECT WASTES FROM THE SITE INCLUDE MATERIALS ASSOCIATED WITH THE DEMOLITION OF EXISTING BUILDINGS, CONCRETE WASHOUT, AND OTHER CONSTRUCT MATERIALS. THE CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIAL AND WASTES IN ACCORDANCE WITH DEP'S SOLID WA MANAGEMENT REGULATIONS, AND/OR ANY ADDITIONAL LOCAL, STATE OR FEDERAL REGULATIONS. NO BUILDING MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SH BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.
- 12. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED FORTY EIGHT (48) HOURS PRIOR TO THE INSTALLATION OF THE SCMs, AND PRIOR TO THE START OF EARTHMOVING ACTIVITIES. 13. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN REGARDS TO ANY IMPROVEMENT ON-SITE OR OFF-SITE.
- 14. ALL CONCRETE CURB TAPERS TO MATCH EXISTING CURB REVEAL.
- 15. NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, OR ALTER ANY EXISTING STORMWATER SCM WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY UNLESS PART OF AN APPROVED MAINTENANCE PROGRAM. 16. NO PERSON SHALL PLACE ANY STRUCTURES, FILL, LANDSCAPING, OR VEGETATION INTO A STORMWATER SCM OR WITHIN A DRAINAGE EASEMENT, WHICH WOULD LIMIT
- ALTER THE FUNCTIONING OF THE SCM, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY. 17. THE MUNICIPALITY SHALL HAVE THE RIGHT TO ENTER PRIVATE PROPERTY TO INSPECT AND REPAIR, IF NECESSARY, ANY STORMWATER MANAGEMENT FACILITY.
- 18. THE STORMWATER MANAGEMENT FACILITIES ARE A PERMANENT PART OF THE DEVELOPMENT AND SHALL NOT BE REMOVED, ALTERED, OR MODIFIED, WITHOUT THE WRIT APPROVAL OF THE MUNICIPALITY AND CONSERVATION DISTRICT.
- 19. THE PCSM PLAN, INSPECTION REPORTS, AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY PADEP OR THE MONTGOMERY COUL CONSERVATION DISTRICT.

SEQUENCE OF CONSTRUCTION:

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED, UNLESS NOTED OTHERWISE. CLEARING AND GRUBBING SHALL BE LIMITED ON TO THOSE AREAS DESCRIBED IN EACH STAGE. NOTE: CESSATION OF CONSTRUCTION ACTIVITIES FOR 4 DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.

AT LEAST 7 DAYS PRIOR TO START OF WORK OR EARTH DISTURBANCE ACTIVITIES, A PRECONSTRUCTION MEETING SHALL BE HELD INCLUDING THE OWNER, SITE CONTRACTOR, TOWNSHIP ENGINEER, MONTGOMERY COUNTY CONSERVATION DISTRICT, AND A LICENSED PROFESSIONAL.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

- 1. INSTALL STAKE OUT LIMIT OF DISTURBANCE AS SHOWN ON THE PLANS. INSTALL COMPOST FILTER SOCK AS SHOWN ON THE PLANS. 1.1. FILTER SOCKS SHALL BE CHECKED DAILY AT THE BEGINNING OF THE WORK DAY. REPLACEMENT SOCKS IN KIND SHALL BE PROVIDED IF DAMAGED OR
- NOT FUNCTIONING PROPERLY. INSTALL ALL TREE PROTECTION FENCING AS SHOWN ON THE PLANS PRIOR TO INITIATION OF EARTH DISTURBANCE ACTIVITIES. TREE PROTECTION FENCING SHALL BE CHECKED DAILY AT THE BEGINNING OF THE WORK DAY. REPLACEMENT FENCING IN KIND SHALL BE PROVIDED IF DAMAGED OR NOT
- FUNCTIONING PROPERLY. INSTALL ROCK CONSTRUCTION ENTRANCE WHERE INDICATED ON THE PLANS, AND ALL OTHER EROSION AND SEDIMENT CONTROLS INDICATED ON PLAN. A. EXISTING VEGETATION SHALL BE CUT TO GROUND AS NECESSARY PRIOR TO INSTALLATION OF COMPOST FILTER SOCK TO ENSURE CONTACT WITH
- EARTH. LOOSE COMPOST OR EARTHEN MATERIAL SHALL BE BLOWN OR PLACED INTO UPSTREAM SIDE TO MINIMIZE UNDERMINING.. B. NO DEMOLITION OR EARTH DISTURBANCE SHOULD OCCUR IN ANY AREA UNTIL PERIMETER SEDIMENT CONTROLS HAVE BEEN INSTALLED.
- CLEAR AND GRUB REMAINDER OF THE CONSTRUCTION AREA AND TREES AS DELINEATED ON THE PLAN. DISTURBED AREAS AREA TO BE STABILIZED IMMEDIATELY WITH TEMPORARY SEED AND MULCH. RELOCATE ANY SITE FEATURES THAT ARE PROPOSED TO BE RELOCATED AS SHOWN ON THE DEMOLITION PLAN.
- STRIP AND STOCKPILE TOPSOIL WHERE INDICATED ON THE PLANS. STOCKPILE SHALL BE IMMEDIATELY STABILIZED UPON CONSOLIDATION. COMPOST FILTER SOCK SHALL BE IN STALLED AROUND PERIMETER OF SOIL STOCKPILE ON THE DOWNSLOPE SIDE. IMMEDIATELY APPLY TEMPORARY SEEDING AND MULCH TO THE STOCKPILE.
- 6. EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE GENERAL SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
- 7. ALL EROSION CONTROL DEVICES SHALL BE CHECKED WEEKLY (OR DAILY IF SPECIFIED) AND AFTER EACH RAIN EVENT. ALL PREVENTATIVE REMEDIAL MAINTENANCE WORK INCLUDING REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, REMULCHING, AND RENETTING SHALL BE PERFORMED IMMEDIATELY.
- 8. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF RUNOFF OR SEDIMENT DISPLACEMENT. SPECIAL ATTENTION SHALL BE GIVEN TO FROZEN SLOPES. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE, AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.
- INSTALL CONCRETE WASHOUT AS SHOWN ON PLANS.
- 10. ROUGH GRADE SITE. CONTRACTOR TO ADJUST UPSLOPING PORTIONS OF THE ALL COMPOST FILTER SOCKS TO ACCOUNT FOR ELEVATION CHANGES FROM EXISTING TO PROPOSED LAND SLOPES. SOCKS SHALL BE CHECKED FOR DAMAGE AND RESTAKED TO ENSURE PROPER FUNCTIONALITY. INSTALL PROPOSED DRAINAGE SWALES AS SHOWN ON THE PLANS. INSTALL EROSION CONTROL SLOPE AND SWALE MATTING AS SHOWN ON THE PLANS.
- 11. NO IMPERVIOUS SURFACES SHALL BE CREATED UNTIL THE PROPOSED STORMWATER CONTROL MEASURE (SCM) IS INSTALLED AND PROPERLY FUNCTIONING.
- 12. RUNOFF SHALL NOT BE DIRECTED TO THE PROPOSED RAIN GARDEN SCM UNTIL ALL TRIBUTARY DRAINAGE AREAS ARE STABILIZED.
- 13. CRITICAL STAGE: EXCAVATE AND INSTALL RAIN GARDEN SCM. EXCAVATE TO BED INFILTRATION ELEVATION. INSTALL EROSION CONTROL BLANKETS PER PLAN.
- 13.1. CONSTRUCTION MACHINERY SHALL NOT BE DRIVEN OVER THE INFILTRATION AREA TO PREVENT COMPACTION OF SOILS. CARE SHALL BE TAKEN TO NOT COMPACT THE SOILS AROUND THE INFILTRATION AREA DURING ANY AND ALL OTHER CONSTRUCTION ACTIVITIES. 13.2. INSTALL ORANGE CONSTRUCTION FENCE AROUND THE RAIN GARDEN SCM AREA WHERE SHOWN ON THE PLANS TO PREVENT COMPACTION DURING
- CONSTRUCTION ACTIVITIES. CONSTRUCTION FENCE SHALL REMAIN IN PLACE FOR THE RAIN GARDEN SCM UNTIL ALL DRAINAGE AREAS TO SCM ARE COMPLETELY STABILIZED. 14. INSTALL STORM PIPING AND ASSOCIATED STORM STRUCTURES AS SHOWN ON PLAN, BEGINNING WITH THE FURTHEST DOWNSTREAM
- CONNECTION/STRUCTURE.
- 14.1. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON THE PROJECT SITE DURING INSTALLATION OF THESE SCMs. 15. CONTRACTOR SHALL CONTACT THE MONTGOMERY COUNTY CONSERVATION DISTRICT (MCCD) THREE (3) DAYS PRIOR TO FINAL RAIN GARDEN
- STABILIZATION FOR THE PURPOSES OF INSPECTION OF SAID STABILIZATION.
- 16. INSTALL DIRECT DRILLED SEWER AND WATER SERVICE AND ELECTRIC SERVICE LINES ON SITE. STABILIZE AREAS AS NECESSARY.
- 17. BEGIN INSTALLATION OF PROPOSED BUILDING AND ASSOCIATED FEATURES ON-SITE.
- 17.1. INSTALL RETAINING WALLS AND NEW ASPHALT WALKWAY. INSTALL NEW CONCRETE CONDENSOR PADS OUTSIDE OF BUILDING. INSTALL NEW FENCES, GATES, AND ASSOCIATED FEATURES.
- 18. ALL RUNOFF FROM THE SITE MUST BE TREATED UNTIL THE SITE IS STABILIZED.
- 19. AS LAWN AREAS ARE BROUGHT TO GRADE, THEY SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 5-12" THEN PROVIDED WITH A MINIMUM 8" OF TOPSOIL AND SEEDED IMMEDIATELY. ALL VEGETATED AREAS SHALL BE STABILIZED WITH VEGETATION AND MULCH AS SOON AS POSSIBLE.
- A. ALL 4:1 SLOPES OF MORE THAN 6' VERTICAL HEIGHT SHALL BE PROVIDED WITH EROSION CONTROL MATTING IN ACCORDANCE WITH PLANS AND DETAIL 'N.A.G. SLOPE INSTALLATION'.
- B. ALL SWALES AND AREAS OF CONCENTRATED DISCHARGE SHALL BE PROVIDED WITH EROSION CONTROL MATTING IN ACCORDANCE WITH PLANS AND DETAIL 'N.A.G. SWALE INSTALLATION'.
- 22. FINISH GRADE ALL DISTURBED AREAS THAT ARE NOT SPECIFIED TO BE PAVED OR GRAVEL SHALL BE TOPSOILED AND SEEDED. PLACE 6" OF TOPSOIL IN DISTURBED AREAS, REMOVE UNSUITABLE MATERIAL LARGER THAN 1/2" IN ANY DIMENSION, UNIFORMLY GRADE THE SURFACE TO THE REQUIRED CONTOURS WITHOUT THE FORMATION OF WATER POCKETS, APPLY FERTILIZER AND LIME PER SOIL TESTS AND WORK THEM INTO THE SOIL, THEN IMMEDIATELY SEED FOR PERMANENT STABILIZATION, AND APPLY PROSCAPE PENNMULCH SEED ACCELERATOR MULCH TO ALL SEEDED AREAS (NO STRAW OR HAY). DO NOT BROADCAST OR DROP SEED WHEN WIND VELOCITY EXCEEDS 5MPH.
- 23. PLANT ALL PROPOSED TREES AS SHOWN ON THE LANDSCAPING IN ACCORDANCE WITH THE SPECIFICATIONS NOTED ON THE LANDSCAPING NOTES AND DETAILS PLAN SHEET.
- 24. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE BOROUGH ENGINEER TO SCHEDULE AN INSPECTION.
- 25. UPON APPROVAL FROM BOROUGH ENGINEER, EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED. IMMEDIATELY STABILIZE ANY AREA DISTURBED BY REMOVAL OF EROSION AND SEDIMENT CONTROLS WITH TOPSOIL AND SEED.

ALL ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN APPROVED UPLAND AREAS. STABILIZATION SHALL BE CONSIDERED THE PLACEMENT OF BASE COURSE IN PAVED AREAS OR BY 75% OR MORE VEGETATION, UNIFORM COVERAGE, IN LAWN AREAS OR BY OTHER PERMANENT MEANS WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

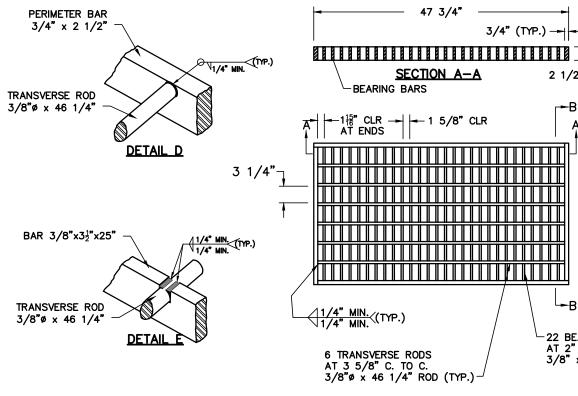
RECEIVING SURFACE WATERS:

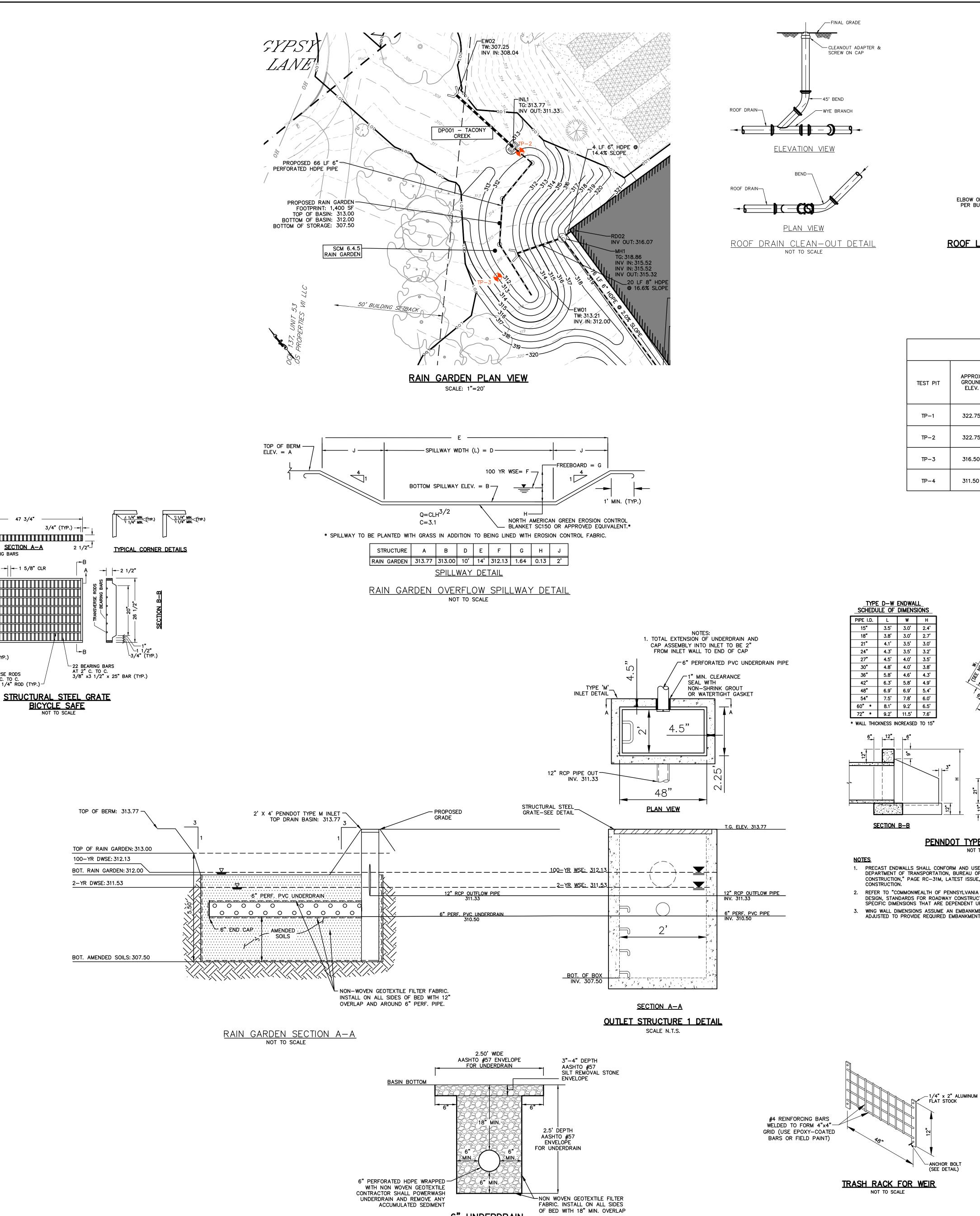
RUNOFF FROM THIS SITE DRAINS TO TACONY CREEK. TACONY CREEK HAS AN EXISTING AND DESIGNATED RECEIVING WATER CLASSIFICATION OF WARM WATER FISHES (WWF) PER CHAPTER 93 OF THE PA CODE. THE SITE IS NOT LOCATED AND NOR DRAINS TO A HIGH QUALITY (HQ) WATERSHED.

THERE ARE NO FLOODPLAINS, STREAMS/WATERCOURSES, WETLANDS, OR RIPARIAN CORRIDORS ON OR NEAR THE PROPERTY BOUNDARY FOR THIS PROJECT.

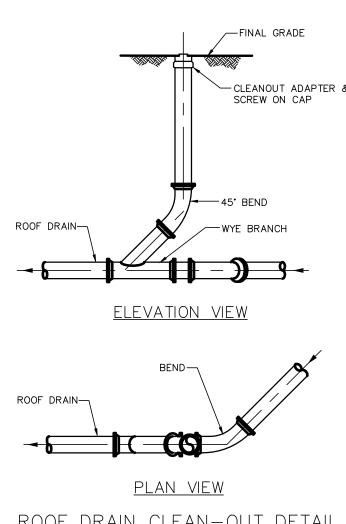
	SEQUENCE OF PCSM SCM IMPLEMENTATION / INSTALLATION INDIVIDUAL SEQUENCE OF SCM INSTALLATION-SECTION 102.8(F)(7)
SHALL	
C. HAS MED IN	THE PADEP CHAPTER 102 REGULATIONS WHICH BECAME EFFECTIVE NOVEMBER 19, 2010, REQUIRE A LICENSED PROFESSIONAL OR HIS/HER DES PRESENT ON-SITE TO OBSERVE, INSPECT, AND SIGN-OFF ON THE CRITICAL STAGES OF THE POST CONSTRUCTION STORMWATER MANAGEMENT I IMPLEMENTATION AND FACILITY INSTALLATION. THE LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON-SITE FOR THE FOLLOWI STAGES OF THE PCSM PLAN IMPLEMENTATION:
/ISION	
	 DISCONNECTION FROM STORM SEWERS (SCM 5.8.2) RAIN GARDEN/BIORETENTION (SCM 6.4.5)
PERTY	 LANDSCAPE RESTORATION (SCM 6.7.2)
SHALL	
ROVED	ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLE ANY FOLLOWING STAGE IS INITIATED, UNLESS NOTED OTHERWISE. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRI STAGE.
TTING	
-	AT LEAST 7 DAYS PRIOR TO START OF WORK OR EARTH DISTURBANCE ACTIVITIES, A PRE-CONSTRUCTION MEETING SHALL BE HELD INCLUDING
EVENT	SITE CONTRACTOR, BOROUGH ENGINEER, MONTGOMERY COUNTY CONSERVATION DISTRICT, AND THE PLAN DESIGNER.
	RAIN GARDEN/BIORETENTION (SCM 6.4.5) -SEQUENCE OF INSTALLATION
LDING	 INSTALL TEMPORARY SEDIMENT CONTROL SCMs AS SHOWN ON THE PLANS. COMPLETE SITE GRADING. IF APPLICABLE, CONSTRUCT CURB CUTS OR OTHER INFLOW ENTRANCE BUT PROVIDE PROTECTION SO THAT I PROHIBITED FROM ENTERING CONSTRUCTION AREA.
CTION	3. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE RAIN GARDEN AREA. RAIN GARDEN BED AREAS MAY I
VASTE	TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISH ELEVATION OF THE BED IS 12 INCHES LOWER THAN THE BOTTOM EL
SHALL	
	 EXCAVATE RAIN GARDEN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS. BACKFILL RAIN GARDEN WITH AMENDED SOIL AS SHOWN ON PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO AC
ES.	5. BACKFILL RAIN GARDEN WITH AMENDED SOIL AS SHOWN ON PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO AC SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
	6. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
	7. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR
S IT IS	SPECIFIED ON PLANS.
	8. PLANT VEGETATION ACCORDING TO PLANTING PLAN.
1IT OR	9. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY.
	LANDSCAPE RESTORATION (SCM 6.7.2)
	1. PLANT SELECTION
RITTEN	 SELECT PLANTS THAT ARE WELL ADAPTED TO THE SPECIFIC SITE CONDITIONS. MEADOW PLANTS MUST BE ABLE TO OUT COMPETE WEEL
	THE FIRST FEW YEARS AS THEY BECOME ESTABLISHED.
DUNTY	 2. PREPARE SITE ALL WEEDS OR EXISTING VEGETATION MUST BE ELIMINATED PRIOR TO SEEDING.
	 PERENNIAL WEEDS MAY REQUIRE YEAR LONG SMOTHERING, REPEATED SPRAYINGS WITH HERBICIDES, OR REPEATED TILLAGE WITH EQUIR
	CAN UPROOT AND KILL PERENNIAL WEEDS.
	3. PLANTING DAY
L BE	PLANTING CAN TAKE PLACE FROM SPRING THAW THROUGH JUNE 30 OR FROM SEPTEMBER 1 THROUGH SOIL FREEZE-UP (DORMANT SEEDING)
ONLY	 PLANTING IN JULY AND AUGUST IS GENERALLY NOT RECOMMEND DUE TO THE FREQUENCY OF DROUGHT DURING THIS TIME. SEEDING CAN BE ACCOMPLISHED BY A VARIETY OF METHODS: NO THE SEEDER FOR MULT ACRE DI ANTING: BROADCAST SEEDER: HAND

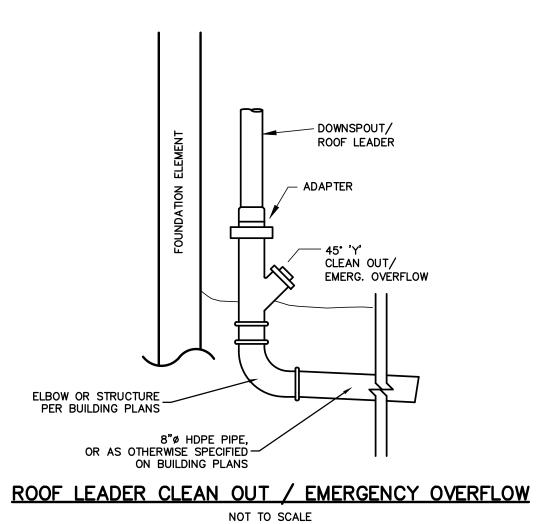
SEQUENCE OF PCSM SCM IMPLEMENTATION / INSTALLATION INDIVIDUAL SEQUENCE OF SCM INSTALLATION-SECTION 102.8(F)(7)	GENERAL PCSM PLANNING AND DESIGN: I. <u>STREAM INTEGRITY PRESERVATION - §102.8(b)(1)</u>	, INC.
THE PADEP CHAPTER 102 REGULATIONS WHICH BECAME EFFECTIVE NOVEMBER 19, 2010, REQUIRE A LICENSED PROFESSIONAL OR HIS/HER DESIGNEE TO BE PRESENT ON-SITE TO OBSERVE, INSPECT, AND SIGN-OFF ON THE CRITICAL STAGES OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM) IMPLEMENTATION AND FACILITY INSTALLATION. THE LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ON-SITE FOR THE FOLLOWING <u>CRITICAL</u> STAGES OF THE PCSM PLAN IMPLEMENTATION:	THE PROPOSED SCMs, AS PART OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN, HAVE BEEN PLANNED AND PROVIDED IN ORDER TO PRESERVE THE INTEGRITY OF STREAM CHANNELS, AND TO MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITY OF THE RECEIVING STREAMS.	ASSOCIATES, I CONSULTING SERVIC READQUARTERS N, PA 18901 • (215) 345-4330 • www.glimc
 DISCONNECTION FROM STORM SEWERS (SCM 5.8.2) RAIN GARDEN/BIORETENTION (SCM 6.4.5) LANDSCAPE RESTORATION (SCM 6.7.2) 	II. <u>PREVENT STORMWATER RUNOFF RATE INCREASE - §102.8(b)(2)</u> THE PROPOSED POST CONSTRUCTION STORMWATER MANAGEMENT PLAN WILL PREVENT AN INCREASE IN STORMWATER RUNOFF RATES THROUGH THE USE OF STRUCTURAL SCMs.	ASSOC SONSUL1 DQUARTERS A 18901 • (215)
ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED, UNLESS NOTED OTHERWISE. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.	III. MINIMIZE STORMWATER RUNOFF VOLUME INCREASE - §102.8(b)(3)	
STAGE. AT LEAST 7 DAYS PRIOR TO START OF WORK OR EARTH DISTURBANCE ACTIVITIES, A PRE-CONSTRUCTION MEETING SHALL BE HELD INCLUDING THE OWNER, SITE CONTRACTOR, BOROUGH ENGINEER, MONTGOMERY COUNTY CONSERVATION DISTRICT, AND THE PLAN DESIGNER.	THE PROPOSED POST CONSTRUCTION STORMWATER MANAGEMENT PLAN WILL MINIMIZE AN INCREASE IN STORMWATER RUNOFF VOLUME THROUGH THE USE OF STRUCTURAL SCMs. IV. <u>MINIMIZE IMPERVIOUS AREAS - §102.8(b)(4)</u>	GILMORE ENGINEERIN CORPOR VENUE, SUITE 100, NEW BI
 RAIN GARDEN/BIORETENTION (SCM 6.4.5) -SEQUENCE OF INSTALLATION INSTALL TEMPORARY SEDIMENT CONTROL SCMs AS SHOWN ON THE PLANS. COMPLETE SITE GRADING. IF APPLICABLE, CONSTRUCT CURB CUTS OR OTHER INFLOW ENTRANCE BUT PROVIDE PROTECTION SO THAT DRAINAGE IS PROHIBITED FROM ENTERING CONSTRUCTION AREA. STABILIZE GRADING WITHIN THE LIMIT OF DISTURBANCE EXCEPT WITHIN THE RAIN GARDEN AREA. RAIN GARDEN BED AREAS MAY BE USED AS TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISH ELEVATION OF THE BED IS 12 INCHES LOWER THAN THE BOTTOM ELEVATION OF 	THE PROPOSED DEVELOPMENT LAYOUT PROVIDES AN EFFICIENT CONFIGURATION OF IMPERVIOUS SURFACE FOR THE PROPOSED USE TO MINIMIZE IMPERVIOUS AREAS. THE PLAN ALSO DIRECTS IMPERVIOUS SURFACES AND ROOFTOPS TO VEGETATED AREAS AND STRUCTURAL SCMS.	E EAST BUTLER AVENUE
 TEMPORARY SEDIMENT TRAPS PROVIDED THAT THE PROPOSED FINISH ELEVATION OF THE BED IS 12 INCHES LOWER THAN THE BOTTOM ELEVATION OF THE SEDIMENT TRAP. EXCAVATE RAIN GARDEN TO PROPOSED INVERT DEPTH AND SCARIFY THE EXISTING SOIL SURFACES. DO NOT COMPACT IN-SITU SOILS. BACKFILL RAIN GARDEN WITH AMENDED SOIL AS SHOWN ON PLANS AND SPECIFICATIONS. OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS, LEAVING SPACE FOR UPPER LAYER OF COMPOST, MULCH OR TOPSOIL AS 	 THE EXISTING DRAINAGE FEATURES AND VEGETATION SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICAL. TO ACHIEVE THIS GOAL, THE AREAS ON-SITE, OUTSIDE OF THE LIMITS OF DISTURBANCE ARE SUBJECT TO THE FOLLOWING CRITERIA: AREAS SHALL NOT BE SUBJECT TO GRADING OR MOVEMENT OF EXISTING SOIL. EXISTING VEGETATION IN A HEALTHY CONDITION MAY NOT BE REMOVED, INCLUDING TREES, SHRUBS, OR WELL-ESTABLISHED MEADOW/GRASS LAND COVER. 	
 SPECIFIED ON PLANS. PLANT VEGETATION ACCORDING TO PLANTING PLAN. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY. 	 INVASIVE NON-NATIVE VEGETATION MAY BE REMOVED. PRUNING OR OTHER REQUIRED MAINTENANCE OF VEGETATION IS PERMITTED. ADDITIONAL PLANTING IS PERMITTED. AREAS SHALL BE PROTECTED AND DELINEATED IN THE FIELD. THE AREAS NOT SUBJECT TO GRADING ARE ALSO DELINEATED ON THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN. IF ANY FUTURE GRADING OR DISTURBANCE OF THESE AREAS OCCURS, SUBSEQUENT STORMWATER MANAGEMENT MUST BE PROVIDED TO ADDRESS THE ADDITIONAL DISTURBANCE. 	N WEA
 PLANT SELECTION SELECT PLANTS THAT ARE WELL ADAPTED TO THE SPECIFIC SITE CONDITIONS. MEADOW PLANTS MUST BE ABLE TO OUT COMPETE WEED SPECIES IN THE FIRST FEW YEARS AS THEY BECOME ESTABLISHED. PREPARE SITE ALL WEEDS OR EXISTING VEGETATION MUST BE ELIMINATED PRIOR TO SEEDING. 	VI. MINIMIZE LAND CLEARING AND GRADING - §102.8(b)(6) IN ORDER TO MINIMIZE LAND CLEARING AND GRADING, THE AREAS BETWEEN TREE PROTECTION FENCING AND PROPERTY BOUNDARIES ARE SUBJECT TO THE FOLLOWING CRITERIA:	DATE: 04/
 PERENNIAL WEEDS MAY REQUIRE YEAR LONG SMOTHERING, REPEATED SPRAYINGS WITH HERBICIDES, OR REPEATED TILLAGE WITH EQUIPMENT THAT CAN UPROOT AND KILL PERENNIAL WEEDS. PLANTING DAY PLANTING CAN TAKE PLACE FROM SPRING THAW THROUGH JUNE 30 OR FROM SEPTEMBER 1 THROUGH SOIL FREEZE-UP (DORMANT SEEDING) 	 AREAS SHALL NOT BE SUBJECT TO GRADING OR MOVEMENT OF EXISTING SOIL. EXISTING VEGETATION IN A HEALTHY CONDITIONS MAY NOT BE REMOVED, INCLUDING TREES, SHRUBS, OR WELL-ESTABLISHED MEADOW/GRASS LAND 	
 PLANTING IN JULY AND AUGUST IS GENERALLY NOT RECOMMEND DUE TO THE FREQUENCY OF DROUGHT DURING THIS TIME. SEEDING CAN BE ACCOMPLISHED BY A VARIETY OF METHODS: NO-TILL SEEDER FOR MULTI-ACRE PLANTING; BROADCAST SEEDER; HAND BROADCAST FOR SMALL AREAS OF ONE ACRE OR LESS. SEED QUALITY IS CRITICAL AND A SEED MIX SHOULD BE USED WITH A MINIMUM PERCENTAGE OF NON-SEED PLANT PARTS. SITE MAINTENANCE (ADDITIONAL INFORMATION BELOW) ASSIGN RESPONSIBILITIES FOR WATERING, WEEDING, MOWING, AND MAINTENANCE MONITOR SITE REGULARLY FOR GROWTH AND POTENTIAL PROBLEMS 	 COVER. INVASIVE NON-NATIVE VEGETATION MAY BE REMOVED. PRUNING OR OTHER REQUIRED MAINTENANCE OF VEGETATION IS PERMITTED. ADDITIONAL PLANTING IS PERMITTED. AREAS SHALL BE PROTECTED AND DELINEATED IN THE FIELD. THE AREAS NOT SUBJECT TO GRADING ARE ALSO DELINEATED ON THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN. IF ANY FUTURE GRADING OR DISTURBANCE OF THESE AREAS OCCURS, SUBSEQUENT STORMWATER MANAGEMENT MUST BE PROVIDED TO ADDRESS THE ADDITIONAL DISTURBANCE. 	
POTENTIAL THERMAL IMPACTS:	VII. <u>MINIMIZE SOIL COMPACTION - §102.8(b)(7)</u> THE LIMITS OF DISTURBANCE HAVE BEEN DELINEATED AS THE MINIMUM PRACTICAL AREAS AND ALL OTHER AREAS SHALL NOT BE DISTURBED AND ARE SUBJECT TO THE FOLLOWING CRITERIA:	
POST CONSTRUCTION THERMAL IMPACTS FROM THE IMPERVIOUS SURFACES WITHIN THE SITE ARE MITIGATED IN SEVERAL WAYS. FIRST, PROPOSED LAWN AREAS PROVIDE TURBULENT FLOW AREAS AND THEREFORE ENERGY (HEAT) IS RELEASED FROM THE WATER AS IT FLOWS OVER THE LAWN AREAS. ADDITIONALLY, THE PROPOSED STORMWATER MANAGEMENT RAIN GARDEN PROVIDES INFILTRATION AND THE STORMWATER WILL NATURALLY COOL WHEN IT IS IN THE UNDERGROUND SOIL MEDIA. IF ANY POTENTIAL FOR THERMAL IMPACTS IS IDENTIFIED, IMMEDIATELY CONTACT CHELTENHAM TOWNSHIP ENGINEER AND THE MONTGOMERY COUNTY CONSERVATION DISTRICT FOR INFORMATION TO AVOID, MINIMIZE, OR MITIGATE ANY IMPACTS.	 AREAS SHALL NOT SUBJECT TO GRADING OR MOVEMENT OF EXISTING SOIL. AREAS SHALL NOT SUBJECT TO GRADING OR MOVEMENT OF EXISTING SOIL. EXISTING VEGETATION IN A HEALTHY CONDITION MY NOT BE REMOVE, INCLUDING TREES, SHRUBS, OR WELL-ESTABLISHED MEADOW/GRASS LAND COVER. INVASIVE NON-NATIVE VEGETATION MAY BE REMOVED. PRUNING OR OTHER REQUIRED MAINTENANCE OF VEGETATION IS PERMITTED. ADDITIONAL PLANTING IS PERMITTED. AREAS SHALL BE PROTECTED AND DELINEATED IN THE FIELD. 	
1. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTE IN ACCORDANCE WITH THE	VII. <u>OTHER SCM CONTROLS TO MINIMIZE RUNOFF - §102.8(b)(8)</u> OTHER STRUCTURAL AND NON-STRUCTURAL SCMs SHALL BE UTILIZED TO PREVENT OR MINIMIZE THE GENERATION OF ADDITIONAL STORMWATER RUNOFF	
DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.	 • DISCONNECTION FROM STORM SEWERS (SCM 5.8.2) 	
2. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN ON THE PROPERTY, DEMOLISHED OR EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE. MATERIALS SLATED FOR REMOVAL FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH ANY AND ALL APPLICABLE MUNICIPAL OR OTHER GOVERNMENTAL AGENCY CURRENT REGULATIONS. DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE ON THE JOB-SITE. DUST AND DIRT SHALL BE HELD TO A MINIMUM DURING DEMOLITION, BY WETTING DOWN, AS REQUIRED. ON SITE BURNING OF MATERIALS WILL NOT BE PERMITTED. AT THE COMPLETION OF WORK, THE ENTIRE AREA INVOLVED WILL BE CLEAN AND LEFT IN A NEAT CONDITION, FREE OF RUBBISH. RECYCLING OR DISPOSAL OF MATERIALS ASSOCIATED WITH OR FROM THIS PROJECT SITE SHALL BE UNDERTAKEN	 RAIN GARDEN/BIO-INFILTRATION (SCM 6.4.5) LANDSCAPE RESTORATION (SCM 6.7.2) LONG-TERM OPERATION AND MAINTENANCE SCHEDULE FOR PCSM SCMs OPERATION AND MAINTENANCE PROGRAM 	
IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES AND REGULATIONS. 3. SEDIMENT REMOVED FROM CONTROL FACILITIES AS A PART OF REGULAR MAINTENANCE SHALL BE DISPOSED OF UPSLOPE OF THE CONTROL FACILITY.	 THE PERMITTEE IS TO PROVIDE PROOF BY THE DESIGN ENGINEER OR ON-SITE INSPECTOR THAT MAJOR DRAINAGE STRUCTURES AND CONTROLS HAVE BEEN CONSTRUCTED AS DESIGNED. MAINTENANCE OF THE STORMWATER MANAGEMENT FACILITIES AND OTHER FACILITIES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. 	
THE FOLLOWING IS A LIST THAT INCLUDES, BUT THAT IS NOT LIMITED TO, THE POTENTIAL PROJECT WASTES SPECIFIC TO PCSM SCMs AND/OR PROJECT CONSTRUCTION: - CONCRETE - STONE, GRAVEL, AND/OR ROCK - TOP SOIL AND SUBSURFACE SOILS - TREES, SHRUBS, WEEDS, VEGETATION	THE PROPERTY OWNER MAY DELEGATE AUTHORITY FOR MAINTAINING THE MAINTENANCE TO OTHER INDIVIDUALS OR CONTRACTORS, BUT THE ULTIMATE RESPONSIBILITY FOR PROPER MAINTENANCE IS THE PROPERTY OWNER. 3. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT SCMs MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL SCMs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL SCMs FAIL TO PERFORM AS EXPECTED, REPLACEMENT SCMS OR MODIFICATIONS TO THOSE INSTALLED WILL BE	
- MISCELLANEOUS TRASH AND DEBRIS	REQUIRED. 4. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES SHALL BE COMPLETED FOR EACH POST CONSTRUCTION STORMWATER MANAGEMENT BMP AND INSPECTION/REPAIR ACTIVITY. 5. SEDIMENT SHALL BE REMOVED FROM STORMWATER SCMs WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. COLLECTED SEDIMENT SHALL BE	
THERE ARE NO AREAS OF HIGH QUALITY (HQ) OR EXCEPTIONAL VALUE (EV) WATERSHEDS ON THE PROPERTY SITE, NOR DOES ANY AREA OF THE PROPERTY FLOW TO AN HQ OR EV WATERSHED. THEREFORE, RIPARIAN BUFFER, RIPARIAN FOREST BUFFER, OR EQUIVALENCY DEMONSTRATION ARE NOT REQUIRED NOR APPLICABLE AS PART OF THIS PROJECT.	 SPREAD ELSEWHERE (IN AREAS UNDER CONSTRUCTION) DURING CONSTRUCTION AND STABILIZATION. SEEDING AND MULCHING OF SLOPES SHALL CONFORM TO THE RECOMMENDATIONS WITHIN OR APPROVED EQUAL. TOPSOIL (MINIMUM 6 INCHES) SHALL BE PLACED PRIOR TO SEEDING. 6. THE STORMWATER SCMs AND WATER QUALITY FEATURES ARE TO BE MAINTAINED AND THE OUTLET STRUCTURES CHECKED AND REPAIRED IF NECESSARY. 7. MAINTENANCE OF THE STORMWATER SCMs AND OTHER FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF RECORD. THE OWNER OF 	
PCSM SHORT AND LONG-TERM OPERATION AND MAINTENANCE REQUIREMENTS:	 RECORD MAY DELEGATE AUTHORITY FOR MAINTAINING THE MAINTENANCE TO OTHER INDIVIDUALS OR CONTRACTORS BUT THE ULTIMATE RESPONSIBILITY FOR PROPER MAINTENANCE IS THE OWNER OF RECORD. 8. VEGETATION SHALL BE MOWED WHENEVER NECESSARY TO MAINTAIN A PLEASING APPEARANCE AND DISCOURAGE WEED GROWTH. ALL LOCAL REGULATIONS WILL BE COMPLIED WITH. 	
THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM SCMs UNLESS A DIFFERENT PERSON IS IDENTIFIED AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM SCMs. FOR ANY PROPERTY CONTAINING A PCSM SCM, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM SCM AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY.	 AREAS THAT CONTAIN SOD SHALL BE CHECKED CAREFULLY TO ENSURE THE JOINTS BETWEEN SOD STRIPS ARE TIGHT AND SECURE. WHERE JOINT SEPARATION IS EVIDENT, A CAREFUL INSPECTIONS OF EACH STRIP SHALL BE MADE TO DETERMINE WHETHER UNDERMINING OF THE STRIPS IS OCCURRING. IF IT IS, THE STRIPS SHALL BE ROLLED UP, THE SUBSURFACE SHALL BE FILLED AND GRADED AS REQUIRED AND THE SOD STRIPS SHALL BE RE-LAID WITH TIGHT JOINTS AND PEGGING. 	G FAC
THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM SCM, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM SCM'S AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM SCM IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEES.	 SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEEDED. A BURLAP OR STRAW COVER WILL BE APPLIED AT A RATE OF 3 TONS/ACRE TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY. THE ABOVE PROCEDURE SHALL BE REPEATED AFTER EACH SIZABLE STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. AT WEEKLY INTERVALS THEREAFTER, INSPECTION AND NECESSARY CLEANING WILL BE DONE. PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUR, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, REMULCHING AND RENETTING MUST BE DONE IMMEDIATELY. 	ITTIN
THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON, INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION, OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM SCMs OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM SCMs LOCATED ON THE PROPERTY. A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM SCM OR OTHERWISE FAILS TO COMPLY	 TRASH REMOVED FROM ANY OF THE CONTROL DEVICES SHALL BE DISPOSED OF AT A PENNSYLVANIA DEPARTMENT OF THE ENVIRONMENTAL PROTECTION APPROVED DISPOSAL AREA. THERE WILL BE NO BURNING OR BURYING OF WASTE ON THE SITE. SILT THAT HAS ACCUMULATED SHALL BE REMOVED AND USED AS FILL WHENEVER REQUIRED ON THE SITE. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AT COMPLETION OF THE PROJECT AFTER ALL EXPOSED SOIL SURFACES ARE FINISH GRADED AND 	DEVELOPN
WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM SCMs LOCATED ON THE PROPERTY. SCMs SHOULD BE INSPECTED AT LEAST ONE (1) TIME PER YEAR AND AFTER RUNOFF EVENTS. THE PCSM SCMs MUST BE INSPECTED AND MAINTAINED AS NOTED UNDER THE INSPECTION, MAINTENANCE AND/OR REPLACEMENT PLAN NOTES, AND THE	 STABILIZED. 14. UPON REDUCTION, LOSS, OR FAILURE OF ANY BMP, THE PERMITTEE OR CO-PERMITTEE SHALL TAKE IMMEDIATE ACTION TO RESTORE, REPAIR, OR REPLACE BMP, OR PROVIDE AN ALTERNATE METHOD OF TREATMENT. 15. THE RESPONSIBLE PARTY FOR MAINTAINING THE POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES SHALL PERFORM THE FOLLOWING AT A MINIMUM: 	LAND A INDO
INDIVIDUAL OPERATION AND MAINTENANCE NOTES AS INDICATED ON THE PLANS. THIS INCLUDES REPAIRS AND REPLACEMENT IF REQUIRED TO ENSURE THEY FUNCTION/OPERATE PROPERLY.	BMP 5.6.2 MINIMIZE SOIL COMPACTION IN DISTURBED AREAS - OPERATION AND MAINTENANCE MAINTENANCE ACTIVITIES ARE REQUIRED TO ENSURE PROPER FUNCTIONALITY OF THE AREAS OF MINIMIZED SOIL COMPACTION. THE FOLLOWING	
A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL SCM REPAIRS AND MAINTENANCE ACTIVITIES MUST BE COMPLETED AND MADE AVAILABLE FOR DEP OR BCCD STAFF FOR REVIEW.	REPRESENTS THE RECOMMENDED MAINTENANCE EFFORTS:	AR(
SCM TYPE MAINTENANCE ACTIVITY & SCHEDULE	 THAT HAVE NOT. LANDSCAPE VEGETATION WILL LIKELY BE HEALTHIER, HAVE A HIGHER SURVIVAL RATE, REQUIRE LESS IRRIGATION AND FERTILIZER. SOME MAINTENANCE ACTIVITIES SUCH AS FREQUENT LAWN MOWING CAN CAUSE CONSIDERABLE SOIL COMPACTION AFTER CONSTRUCTION AND SHOULD BE AVOIDED WHENEVER POSSIBLE. PLANTING LOW-MAINTENANCE NATIVE VEGETATION IS THE BEST WAY TO AVOID DAMAGE DUE TO 	
RAIN GARDEN / BIORETENTION (SCM 6.4.5) • WHILE VEGETATION IS BEING ESTABLISHED, PRUNING AND WEEDING MAY BE REQUIRED.	MAINTENANCE. <u>BMP 6.7.2 LANDSCAPE RESTORATION - OPERATION AND MAINTENANCE</u>	
 DETRITUS MAY ALSO NEED TO BE REMOVED EVERY YEAR. PERENNIAL PLANTINGS MAY BE CUT DOWN AT THE END OF THE GROWING SEASON. MULCH SHOULD BE RE-SPREAD WHEN EROSION IS EVIDENT AND BE REPLENISHED AS NEEDED. ONCE EVERY 2 TO 3 YEARS THE ENTIRE AREA MAY REQUIRE MULCH REPLACEMENT. BIORETENTION AREAS SHOULD BE INSPECTED AT LEAST TWO TIMES PER YEAR FOR SEDIMENT BUILDUP, EROSION, VEGETATIVE CONDITIONS, ETC. DURING PERIODS OF EXTENDED DROUGHT, BIORETENTION AREAS MAY REQUIRE WATERING. 	 MAINTENANCE ACTIVITIES ARE REQUIRED TO ENSURE PROPER FUNCTIONALITY OF THE LANDSCAPING/TREES. THE FOLLOWING REPRESENTS THE RECOMMENDED MAINTENANCE EFFORTS: 1. ALL TREES MUST BE INSPECTED EACH SPRING TO CONFIRM THEY ARE HEALTHY. REPLACE ANY DEAD TREES WITH THE SAME TYPE OF TREE BEING REMOVED. 2. IF TREES ARE DEAD, THE BMP HAS FAILED AND MUST BE REPLACED. 	G
TREES AND SHRUBS SHOULD BE INSPECTED TWICE PER YEAR TO EVALUATE HEALTH. ANDSCAPE RESTORATION MEADOWS AND FORESTS ARE LOW MAINTENANCE BUT NOT "NO MAINTENANCE". THEY USUALLY REQUIRE MORE FREQUENT MAINTENANCE IN THE EIRST FEW/ YEARS IMMEDIATELY FOLLOWING INSTALLATION	RIP-RAP APRONS - OPERATION AND MAINTENANCE MAINTENANCE ACTIVITIES ARE REQUIRED TO ENSURE PROPER FUNCTIONALITY OF THE RIP-RAP APRONS. THE FOLLOWING REPRESENTS THE RECOMMENDED MAINTENANCE EFFORTS:	
(SCM 6.7.2) FOREST RESTORATION AREAS PLANTED WITH A PROPER COVER CROP CAN BE EXPECTED TO REQUIRE ANNUAL MOWING IN ORDER TO CONTROL INVASIVES. APPLICATION OF A CAREFULLY SELECTED HERBICIDE (ROUNDUP OR SIMILAR GLYPHOSATE HERBICIDE) AROUND THE PROTECTIVE TREE SHELTERS/TUBES MAY BE NECESSARY, REINFORCED BY SELECTIVE CUTTING/MANUAL REMOVAL, IF NECESSARY. THIS INITIAL MAINTENANCE ROUTINE IS NECESSARY FOR THE INITIAL 2 TO 3 YEARS OF GROWTH AND MAY BE NECESSARY FOR UP TO 5 YEARS UNTIL TREE GROWTH AND TREE CANOPY BEGINS TO FORM, NATURALLY INHIBITING WEED GROWTH (ONCE SHADING IS ADEQUATE, GROWTH OF INVASIVES AND OTHER WEEDS WILL BE	 INSPECT RIP-RAP APRONS EVERY THREE (3) MONTHS FOR: EXAMINE RIP-RAP APRON FOR SHIFTING OF EXCESSIVE SETTLEMENT. ENSURE THAT RIP-RAP APRON IS NOT OVERGROWN WITH UNDERBRUSH OR TREES. LOOK FOR GULLIES OR BARE AREAS DOWNSTREAM FROM APRON. THESE AREAS SHOULD NOT BE ERODED OR BARE, REPAIR AS NECESSARY IMMEDIATELY. ENSURE THE AREA DOWNSTREAM FROM THE APRON IS CLEAR OF OBSTRUCTIONS. 	GILMORE & ASS ENGINEERING & COM PROJECT No.: 201003 OWNERS INFO: ARCADIA UNIVE 450 S EASTON GLENSIDE, PA,
NATURALLY PREVENTED, AND THE WOODLAND BECOMES SELF-MAINTAINING). REVIEW OF THE NEW WOODLAND SHOULD BE UNDERTAKEN INTERMITTENTLY TO DETERMINE IF REPLACEMENT TREES SHOULD BE PROVIDED (SOME MODEST RATE OF PLANTING FAILURE IS USUAL).	2. FAILURE OF THE RIP-RAP APRONS COULD ENTAIL STANDING WATER OBSERVED 72 HOURS AFTER THE STORM EVENT. SHOULD THIS OCCUR, TAKE CORRECTIVE ACTIONS AS NECESSARY. RIP-RAP APRONS THAT BECOME LADEN WITH SILT OR DEVELOP VEGETATION GROWTH SHALL BE REMOVED AND RE-INSTALLED AFTER THE APRON AREA HAS BEEN CLEANED AND RE-GRADED.	MUNICIPAL FILE
MEADOW MANAGEMENT IS SOMEWHAT MORE STRAIGHTFORWARD; A SEASONAL MOWING OR BURNING MAY BE REQUIRED, ALTHOUGH CARE MUST BE TAKEN TO MAKE SURE THAT ANY MANAGEMENT IS COORDINATED WITH ESSENTIAL RESEEDING AND OTHER IMPORTANT ASPECTS OF MEADOW REESTABLISHMENT. IN THE FIRST YEAR WEEDS MUST BE CAREFULLY CONTROLLED AND CONSISTENTLY MOWED BACK TO 4-6 INCHES TALL WHEN THEY REACH 12 INCHES IN HEIGHT.	GEOLOGIC FORMATIONS OR SOIL CONDITIONS: THERE ARE NO GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT HAVE POTENTIAL TO CAUSE POLLUTION DURING EARTH DISTURBANCE ACTIVITIES. IF ANY POTENTIAL FOR POLLUTION IS IDENTIFIED, IMMEDIATELY CONTACT CHELTENHAM TOWNSHIP ENGINEER AND THE MONTGOMERY COUNTY CONSERVATION DISTRICT FOR INFORMATION TO AVOID, MINIMIZE, OR MITIGATE ANY POLLUTION.	TAX MAP PARCE 31-00-08 TOTAL AREA: 59.10 AC. DATE:
IN THE SECOND YEAR, WEEDS SHOULD CONTINUE TO MONITORED AND MOWED AND RHIZOMATOUS WEEDS SHOULD BE HAND TREATED WITH HERBICIDE. WEEDS SHOULD NOT BE SPRAYED WITH HERBICIDE AS THE DRIFT FROM THE SPRAY MAY KILL LARGE PATCHES OF DESIRABLE PLANTS, ALLOWING WEEDS TO MOVE IN TO THESE NEW OPEN AREAS. IN THE BEGINNING OF	E&S PLAN AND PCSM PLAN CONSISTENCY:	04/22/2025





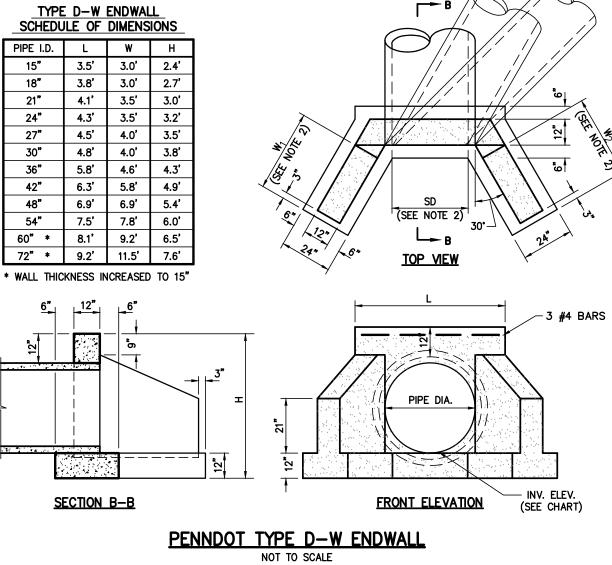
6" UNDERDRAIN NOT TO SCALE





STORMWATER INFILTRATION TEST PITS				
	APPROX.	DEPTH	GROUND WATER	INFILTRA
TEST PIT	GROUND ELEV.	TO ROCK	ELEV.	DEPTH
TP-1	322.75	57"	NE	NOT TESTED
TP-2	322.75	N/A	NE	60"
TP-3	316.50	84"	NE	48"
TP-4	311.50	N/A	NE	48"

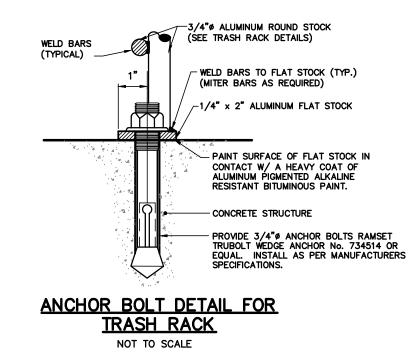
SEE NOTE 2 -



PRECAST ENDWALLS SHALL CONFORM AND USERS SHALL REFER TO "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION," PAGE RC-31M, LATEST ISSUE, FOR NOTES REGARDING PRECAST CONCRETE ENDWALL CONSTRUCTION.

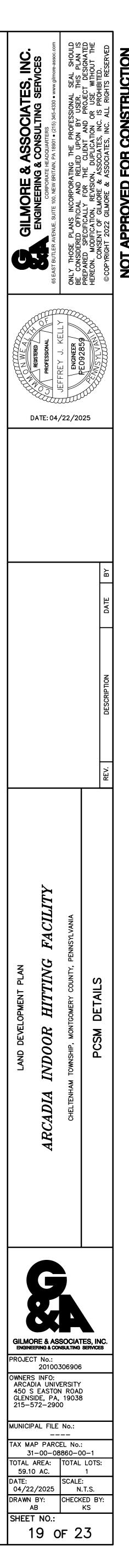
REFER TO "COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION," PAGE RC-31M, SHEET 2 OF 2, TABLE 'A' FOR SPECIFIC DIMENSIONS THAT ARE DEPENDENT UPON PIPE SKEW.

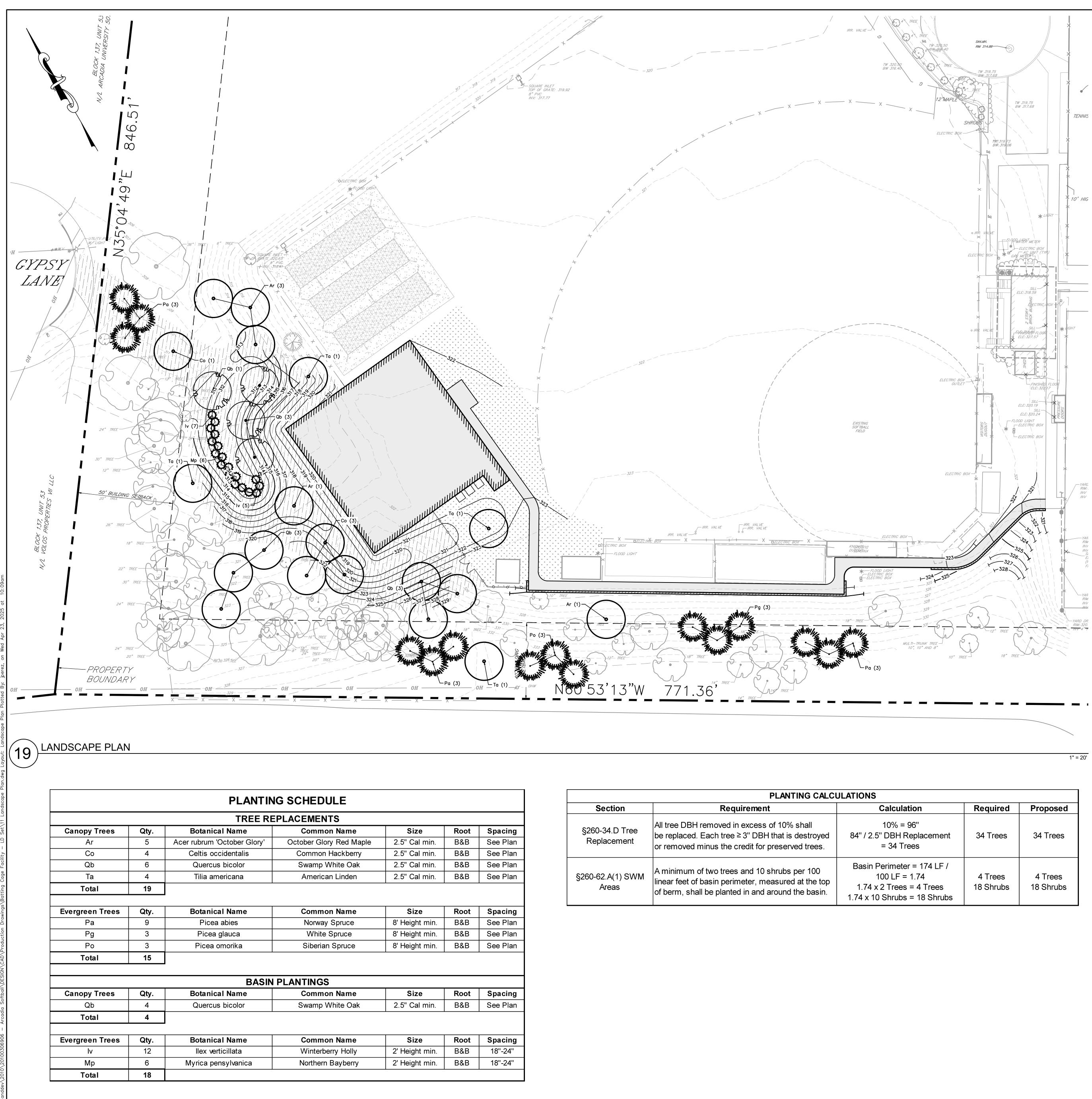
3. WING WALL DIMENSIONS ASSUME AN EMBANKMENT SLOPE OF 2:1. WING WALL LENGTHS SHALL BE ADJUSTED TO PROVIDE REQUIRED EMBANKMENT SLOPE AS SHOWN ON GRADING PLANS.





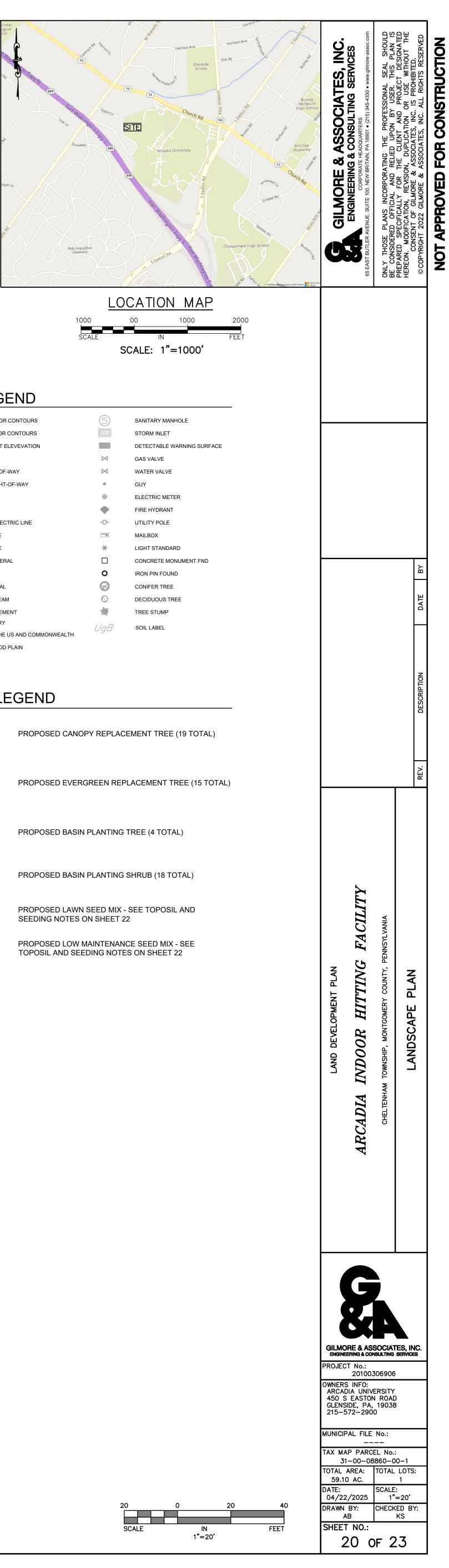






	Root	Spacing
n.	B&B	See Plan
٦.	B&B	See Plan
n.	B&B	See Plan
1 .	B&B	See Plan
	Root	Spacing
n.	B&B	See Plan
n.	B&B	See Plan
n.	B&B	See Plan
	Root	Spacing
n.	B&B	See Plan
	Root	Spacing
n.	B&B	18"-24"
n.	B&B	18"-24"

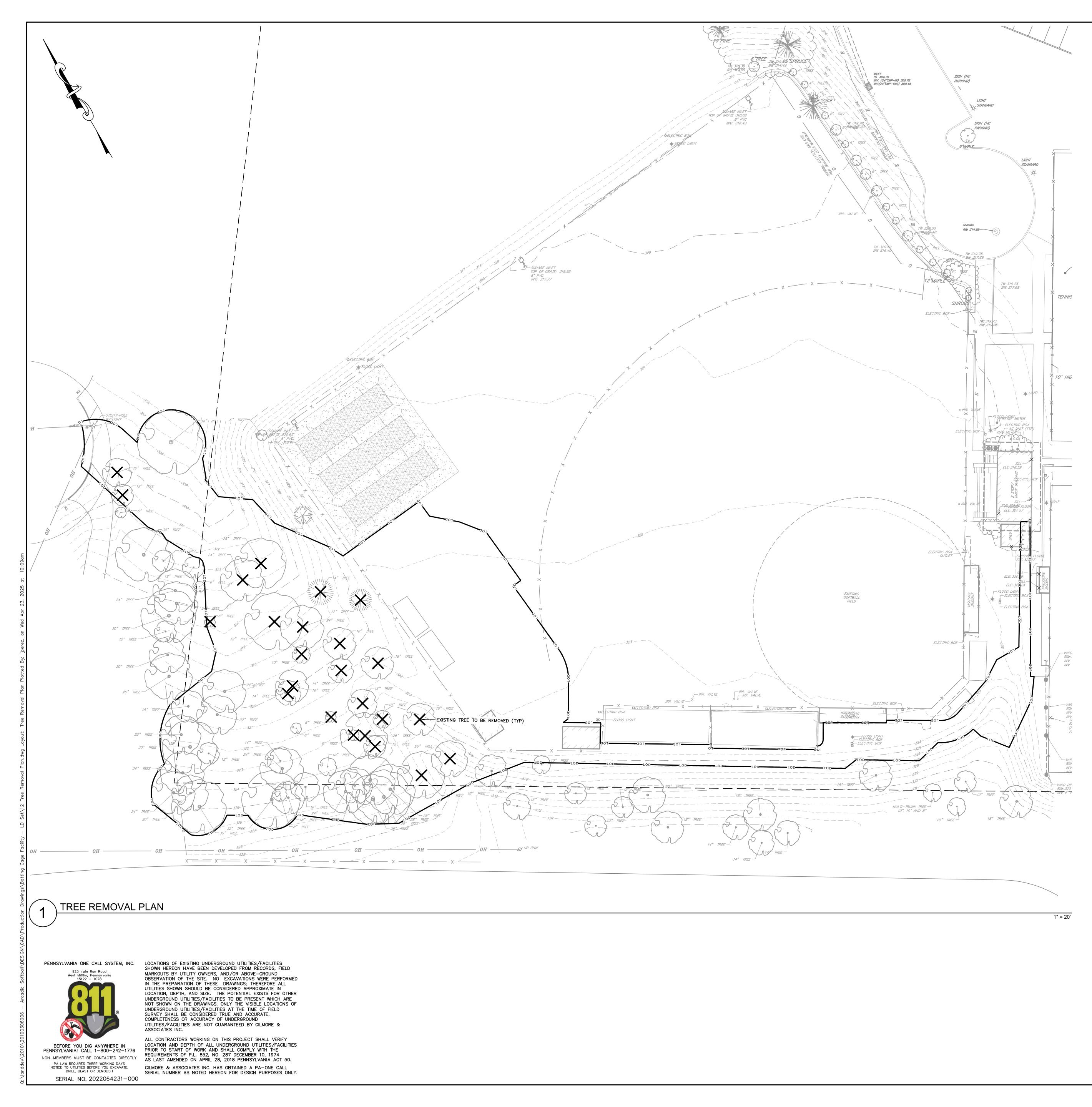
PLANTING CALCULATIONS				
Section	Requirement	Calculation	Required	Proposed
§260-34.D Tree Replacement	All tree DBH removed in excess of 10% shall be replaced. Each tree ≥ 3" DBH that is destroyed or removed minus the credit for preserved trees.	10% = 96'' 84'' / 2.5'' DBH Replacement = 34 Trees	34 Trees	34 Trees
(Vroge	A minimum of two trees and 10 shrubs per 100 linear feet of basin perimeter, measured at the top of berm, shall be planted in and around the basin.	Basin Perimeter = 174 LF / 100 LF = 1.74 1.74 x 2 Trees = 4 Trees 1.74 x 10 Shrubs = 18 Shrubs	4 Trees 18 Shrubs	4 Trees 18 Shrubs

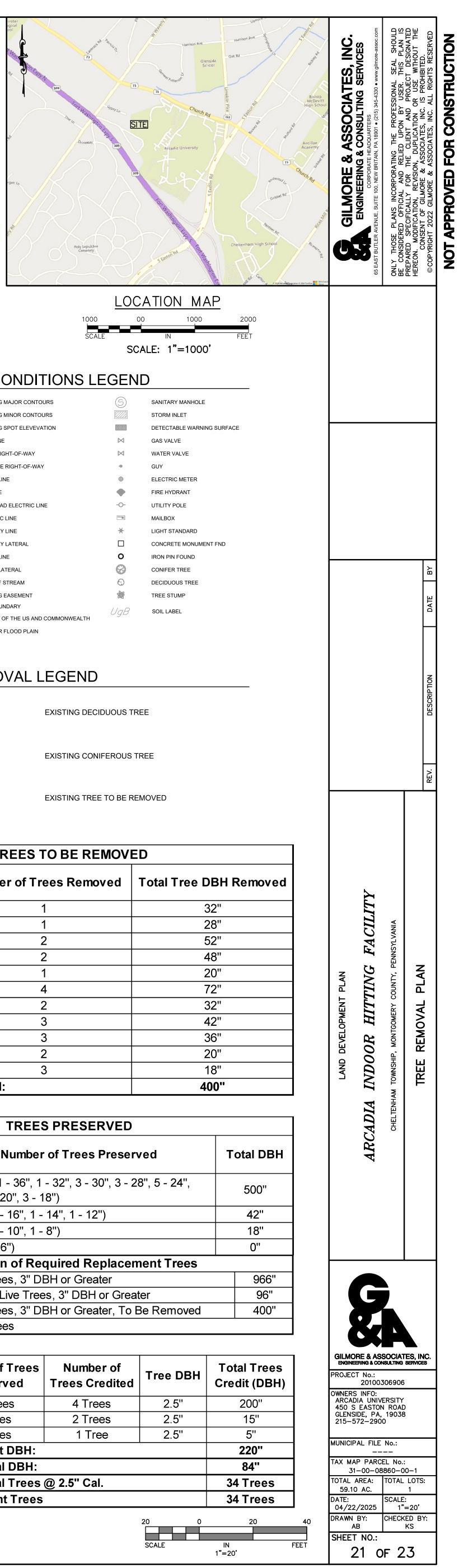


EXISTING MAJOR CONTOURS	S	SANITARY MANHOLE
EXISTING MINOR CONTOURS		STORM INLET
+225.0 EXISTING SPOT ELEVEVATION		DETECTABLE WARNING SURFACI
TREE LINE	\bowtie	GAS VALVE
LEGAL RIGHT-OF-WAY	\bowtie	WATER VALVE
ULTIMATE RIGHT-OF-WAY	-0	GUY
— — — — — STORM LINE	\oplus	ELECTRIC METER
G GAS LINE	•	FIRE HYDRANT
<i>OE</i> OVERHEAD ELECTRIC LINE	-0-	UTILITY POLE
ELECTRIC LINE		MAILBOX
S SANITARY LINE	*	LIGHT STANDARD
-SL-SL-SL- SANITARY LATERAL		CONCRETE MONUMENT FND
WATER LINE	0	IRON PIN FOUND
	\otimes	CONIFER TREE
EDGE OF STREAM	\odot	DECIDUOUS TREE
EXISTING EASEMENT	1	TREE STUMP
SOIL BOUNDARY	UgB	SOIL LABEL
	C G L	
100 YEAR FLOOD PLAIN		

LANDSCAPE LEGEND

\bigcirc	PROPOSED CANOPY REPLACEMENT TREE (19 TOTAL)
	PROPOSED EVERGREEN REPLACEMENT TREE (15 TOTAL)
- min	PROPOSED BASIN PLANTING TREE (4 TOTAL)
$\langle \cdot \rangle$	PROPOSED BASIN PLANTING SHRUB (18 TOTAL)
$\begin{array}{cccc} \psi & \psi & \psi \\ \psi & \psi & \psi \end{array}$	PROPOSED LAWN SEED MIX - SEE TOPOSIL AND SEEDING NOTES ON SHEET 22
	PROPOSED LOW MAINTENANCE SEED MIX - SEE TOPOSIL AND SEEDING NOTES ON SHEET 22





EXISTING CONDITIONS LEGEND

	EXISTING MAJOR CONTOURS	S	SANITARY MANHOLE
	EXISTING MINOR CONTOURS		STORM INLET
	EXISTING SPOT ELEVEVATION		DETECTABLE WARNING SURF
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TREE LINE	$\bowtie$	GAS VALVE
	LEGAL RIGHT-OF-WAY	$\bowtie$	WATER VALVE
	ULTIMATE RIGHT-OF-WAY	-0:	GUY
	STORM LINE	•	ELECTRIC METER
G	- GAS LINE	•	FIRE HYDRANT
OE	OVERHEAD ELECTRIC LINE	-0-	UTILITY POLE
<u>E</u>	ELECTRIC LINE		MAILBOX
S	SANITARY LINE	×	LIGHT STANDARD
—SL-SL-SL-SL-	SANITARY LATERAL		CONCRETE MONUMENT FND
<i>w</i>	WATER LINE	0	IRON PIN FOUND
	WATER LATERAL	8	CONIFER TREE
· · ·	EDGE OF STREAM	$\odot$	DECIDUOUS TREE
	EXISTING EASEMENT	<b>1</b>	TREE STUMP
	SOIL BOUNDARY	UgB	SOIL LABEL
	WATERS OF THE US AND COMMONWEALTH	0 90	
<u> </u>	100 YEAR FLOOD PLAIN		

#### TREE REMOVAL LEGEND



	TREES TO BE REMOVED		
Tree Size (DBH)	Number of Trees Removed	Total Tree DBH	
32"	1	32"	
28"	1	28"	
26"	2	52"	
24"	2	48"	
20"	1	20"	
18"	4	72"	
16"	2	32"	
14"	3	42"	
12"	3	36"	
10"	2	20"	
6"	3	18"	
	Total:	400"	

TREES PRESERVED				
Preserved Tree (DBH)	Number of Trees Preserved			
≥18"	20 Trees (1 - 36", 1 - 32", 3 - 30", 3 - 28", 5 - 24", 2 - 22", 2 - 20", 3 - 18")			
12"-17"	3 Trees (1 - 16", 1 - 14", 1 - 12")			
8"-11"	2 Trees (1 - 10", 1 - 8")			
1"-6"	1 Tree (1 - 6")			
	Calculation of Required Replacement Trees			
Total DBH of Exist	ing, Live Trees, 3" DBH or Greater			

10% of Total DBH of Existing, Live Trees, 3" DBH or Greater Total DBH of Existing, Live Trees, 3" DBH or Greater, To Be Removed Minus Credit for Preserved Trees

Preserved Tree (DBH)	Number of Trees Preserved	Number of Trees Credited	Tree DBH	To Cro
≥18''	20 Trees	4 Trees	2.5"	
12"-17"	3 Trees	2 Trees	2.5"	
8"-11"	2 Trees	1 Tree	2.5"	
<b>Total Preserved</b>	Tree Credit DBH:			
<b>Required Replace</b>	ement Total DBH:			
Required Replacement Total Trees @ 2.5" Cal.				
Proposed Total Replacement Trees				

#### **GENERAL LANDSCAPING NOTES:**

- 1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED INCLUDING ALL LABOR, MATERIALS, PLANTS EQUIPMENT, INCIDENTALS AND CLEAN UP. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. 3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, WELL-DEVELOPED BRANCHES, BE DENSELY FOLIATED, HAVE VIGOROUS
- ROOT SYSTEMS AND BE FREE OF DEFECTS AND INJURIES. 4. ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE PLANT MATERIAL, SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR FOR 18 MONTHS (1.5 YEARS) FOR TREES AND SHRUBS. REPLACEMENT SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE, INSOFAR AS IT IS PRACTICABLE,
- 6. PLANT MATERIALS SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE (3) DAY PERIOD AFTER DELIVERY.
- 7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH THE MOST RECENT "AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN INC., OR LATEST EDITION. 8. ALL PLANTS SHALL BE PLANTED IN TOPSOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES. NOTHING BUT SUITABLE TOPSOIL, FREE OF
- DRY SOD, STIFF CLAY, LITTER, ETC., SHALL BE USED FOR PLANTING. 9. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN
- ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. 10. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH A LEVEL THAT AFTER SETTLEMENT, A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PLANTING PIT.
- 11. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF THE PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- 12. LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO PLACEMENT OF LANDSCAPE MATERIAL. CONTRACTOR SHALL NOT PLACE LANDSCAPING MATERIAL ON TOP OF UTILITY PIPING.
- 13. PLAN QUANTITIES SUPERSEDE PLANT SCHEDULE. 14. PLANTING PLAN SHALL BE USED FOR PLANT AND LANDSCAPE INSTALLATION ONLY.

#### SOIL MIX NOTES:

#### PLANTING SOIL MIXTURE

A.TREE PLANTING HOLE/PIT (OUTSIDE OF MAN-MADE PLANTERS): THOROUGHLY MIX PLANTING SOIL MIXTURE PRIOR TO INSTALLATION IN PLANTING HOLE/TREE PIT. PLANTING MIX WILL CONSIST OF THE FOLLOWING:

 3 PARTS EXISTING/IN-SITU SOIL FROM PLANTING HOLE. • 1 PART SELECTED ORGANIC SOIL AMENDMENT.

- ORGANIC SOIL AMENDMENT MATERIALS
- A.COMPOST: A MIXTURE OF PARTIALLY DECOMPOSED ORGANIC MATERIALS (CHIPPED, SHREDDED, OR GROUND VEGETATION OR WASTE OR RECYCLED WOOD PRODUCTS), MUSHROOM SOIL/SPENT MUSHROOM SOIL SUBSTRATE (SMS), COMPOSTED ANIMAL MANURE, WELL COMPOSTED LEAF MOLD, OR EXCEPTIONAL QUALITY (CLASS A) COMPOSTED BIO-SOLIDS.

B.COMPOST SHALL BE PROCESSED OR COMPLETED TO REDUCE WEED SEEDS, PATHOGENS, AND DELETERIOUS MATERIAL, AND SHALL NOT CONTAIN PAINT, PETROLEUM PRODUCTS, HERBICIDES, FUNGICIDES, OR OTHER CHEMICAL RESIDUES THAT WOULD BE HARMFUL TO PLANT OR ANIMAL LIFE. OTHER DELETERIOUS MATERIAL, PLASTIC, GLASS, METAL, OR ROCKS SHALL NOT EXCEED 0.1 PERCENT BY WEIGHT OR VOLUME.

C.COMPOST PRODUCED FROM BIO-SOLIDS (SEWAGE/WASTE WATER SLUDGE) SHALL BE "CLASS A GRADE" (EXCEPTIONAL QUALITY) AND MEET US EPA'S 40 CFR PART 503 REGULATIONS.

D.COMPOST SHALL MEET THE FOLLOWING ANALYSIS:

- 1. ORGANIC MATTER CONTENT: ON DRY WEIGHT BASIS, 40 TO 75 PERCENT.
- 2. NITROGEN CONTENT: 1 TO 2.5 PERCENT.
- 3. PHOSPHORUS CONTENT: 1 TO 2 PERCENT.
- 4. POTASSIUM CONTENT: 0.5 TO 1.5 PERCENT.
- 5. CARBON NITROGEN RATIO: 12 TO 25:1 6. MOISTURE CONTENT RANGE: 40 TO 60 PERCENT.
- 7. MOISTURE ABSORBTION: 100 PERCENT (DRY WEIGHT BASIS) MINIMUM.
- 8. PH RANGE: 6.0 TO 8.0.
- 9. BULK DENSITY RANGE: 800 TO 1,000 LBS. PER CUBIC YARD.
- 10. SOLUBLE SALT CONTENT: 5 DS (MMHOS/CM) OR LESS.
- 11. TRACE ELEMENTS: MEET US EPA 40 CFR PART 503 REQUIREMENTS.
- 12. PARTICLE SIZE: MUST PASS 1 INCH SIEVE OR SMALLER. 13. STABILITY RATING: STABLE.

#### **TOPOSIL AND SEEDING NOTES:**

- 1. SITE PREPARATION, STABILIZATION AND MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH PENN STATE UNIVERSITY'S "THE AGRONOMY GUIDE" AND PENNDOT FORM 408 SPECIFICATIONS' MOST RECENT ADDITION.
- 2. TOPSOILING: AREAS DISTURBED SHALL BE TOPSOILED TO A DEPTH OF 6 INCHES TO PROVIDE PROPER SEED BED FOR LAWN SEEDING. TOPSOIL SHALL BE RAKED SMOOTH AND BLENDED WITH ADJACENT GRADE. TOPSOIL SHALL BE FRIABLE AND FREE FROM ROOTS, DEBRIS, STONES GREATER THAN 1 INCH IN DIA. PERMANENT 3. SEEDING SPECIFICATION:
- LAWN SEED MIX TURF TYPE FESCUE (OR APPROVED EQUAL) - 60% TALL FESCUE (NOT KY-31)
- 10% KENTUCKY BLUEGRASS
- 30% PERENNIAL RYEGRASS
- LOW MAINTENANCE SEED MIX ERNST RIGHT-OF-WAY NATIVE WOODS MIX W/ ANNUAL RYEGRASS (OR APPROVED EQUAL) 4. HAY OR STRAW MULCH SHALL BE APPLIED AT THE RATES OF AT LEAST 3.0 TONS PER ACRE.
- 5. PULVERIZED AGRICULTURAL LIMESTONE AND COMMERCIAL FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS WHICH ARE TO BE SEEDED EXCEPT FOR TEMPORARY SEED AREAS ARE THE FOLLOWING RATES: 5.1. PULVERIZED AGRICULTURAL LIMESTONE = 90 LBS/1,000 SF
- 5.2. 10-20-20 ANALYSIS COMMERCIAL FERTILIZER = 20 LBS/1,000 SF

