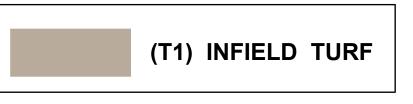


EXISTING FIELD TYPICAL TURF (T1) PLAN



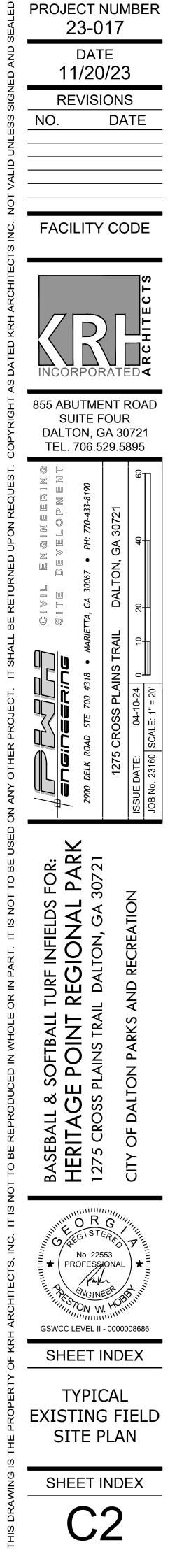
CONSTRUCTION LEGEND:

[T1] INFIELD SYNTHETIC TURF SYSTEM:

PROVIDE AND INSTALL COMPLETE SYNTHETIC TURF SYSTEM. PLANS, DETAILS, AND SPECIFICATIONS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. CONTRACTOR SHALL:

VISIT SITE AND CONFIRM ALL MEASUREMENTS AND EXISTING CONDITIONS IN FIELD PRIOR TO BIDDING. COORDINATE TURF SYSTEM CONSTRUCTION, SCHEDULING, PHASING, CONNECTION(S), EQUIPMENT, AND INSTALLATION WITH GENERAL CONTRACTOR, OWNER'S REP, AND ALL OTHER WORK AND PROPOSED IMPROVEMENTS ONSITE. CONTRACTOR SHALL VISIT SITE AND VERIFY THAT EXISTING ACCESS WILL MEET CONTRACTOR'S REQUIREMENTS TO COMPLETE THE WORK. ANY ISSUES WITH EXISTING ACCESS MUST BE RESOLVED PRIOR TO BIDDING. PROVIDE AND INSTALL ALL SOFTBALL/BASEBALL BASES, HOME PLATE(S), BASE INSERTS, INSERT PLUGS, SOFTBALL / BASEBALL PITCHERS MOUND INSERTS AND MOUNDS, COVERS, AND PLUGS, 18' DIAMETER BASEBALL PORTABLE GHSA / NFHS COMPLIANT PITCHERS MOUND AND ASSOCIATED INSERTS/EQUIPMENT, TURF AND INFILL MAINTENANCE EQUIPMENT AND TRAINING, AND WARRANTY / MAINTENANCE SERVICES PER ARCHITECT SPECIFICATIONS. TURF AND TURF STRIPING / MARKING COLOR(S) PER ARCHITECT. PROVIDE SIDELINE DESIGNATIONS, ALL STRIPING AND FIELD MARKINGS REQUIRED PER STATE OF GEORGIA GHSA HIGH SCHOOL AND NFHS STANDARDS AND SPECIFICATIONS, AND PER ARCHITECT. PROVIDE AND INSTALL ALL EQUIPMENT, STRIPING, MARKING, AND ASSOCIATED ITEMS FOR REGULATION PLAY FOR HIGH SCHOOL SOFTBALL / BASEBALL PER GHSA / NFHS STANDARDS AND SPECIFICATIONS. PROVIDE PERMANENT TICK MARKS FOR ALL REGULATION BASE AND PITCHING MOUND LOCATION(S) FOR BASEBALL AND SOFTBALL FIELD(S). COMPLETE SUBMITTAL REQUIRED FOR APPROVAL FOR SYNTHETIC TURF SYSTEM, SYSTEM COMPONENTS, WARRANTIES, AND ALL FIELD(S) STRIPING, MARKINGS, EQUIPMENT, AND LOGO(S) PRIOR TO PURCHASE.

EXISTING FIELD TYPICAL PLAN



CONSTRUCTION LEGEND:

[AT] STRUCTURE TOP ADJUSTMENT:

RAISE, LOWER, MOVE, ALTER, ADD OR ADJUST EXISTING MANHOLE OR OTHER STRUCTURE TOP, BOX, RING AND COVER AS REQUIRED FOR PROPOSED CONSTRUCTION. REFERENCED STANDARDS, DETAILS, AND SPECIFICATIONS APPLY AS MINIMUM REQUIREMENTS. STRUCTURE TOPS SHALL BE EVEN WITH FINISHED PAVEMENT IN PAVED AREAS AND RATED FOR TRAFFIC IN TRAFFIC AREAS. STRUCTURE TOPS SHALL BE 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.

[CA] CONTROLLED ACCESS:

PROVIDE CONTROLLED ACCESS TO PROJECT SITE USING GATES, TRAFFIC CONTROL [TC], AND PERSONNEL TO MONITOR ACCESS AND PROHIBIT UNAUTHORIZED ENTRY TO THE SITE. PROVIDE ALL WARNING, INSTRUCTIONAL, AND DIRECTIONAL SIGNAGE TO INFORM PUBLIC AND MAINTAIN SAFE CONTROLLED ACCESS AT ALL TIMES. ALL GATES SHALL BE LOCKED AT ALL TIMES EXCEPT FOR AUTHORIZED ENTRY. PROVIDE TEMPORARY FENCING TO PROHIBIT AND CONTROL ACCESS. COORDINATE WITH OWNER AND MAINTAIN SAFE ACCESS FOR NORMAL OPERATION AND FUNCTION. CONTROLLED ACCESS POINTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER.

[CS] CRITICAL SLOPE:

SLOPE SHOWN IS LESS THAN 1 FOOT PER 100 FEET (1.0%). CONTRACTOR SHALL USE LASER GUIDED EQUIPMENT AND PROVIDE ALL NECESSARY MEASURES TO ENSURE FINAL GRADE IS ESTABLISHED AS DESIGNED. CONSTRUCTION TOLERANCE IS NOT ALLOWED FOR CRITICAL SLOPES OR GRADES. NO PONDING OR DEPRESSED AREAS ALLOWED.

[CT] CURB TAPER:

CONTRACTOR SHALL: TAPER CURB HEIGHT FROM STANDARD HEIGHT TO 0" HEIGHT FOR LENGTH SHOWN ON PLANS. END OF TAPER SHALL BLEND SMOOTH INTO PROPOSED FINISH GRADES SO THAT 0" (ZERO INCHES) CURB HEIGHT WILL MATCH ADJACENT PAVEMENT, IMPROVEMENTS, AND/OR FINISH GRADES. PROVIDE EXPANSION JOINT AT INTERFACE. ALL SIDEWALKS ADJACENT TO CURB TAPERS (CT) SHALL BE TAPERED TO MATCH CURB TAPER(S).

[FJ] FLUSH JOINT:

CONTRACTOR SHALL: PROVIDE FLUSH JOINT ALONG DESIGNATED LENGTH. ELEVATIONS SHALL MATCH EQUALLY ALONG ENTIRE LENGTH FROM ONE SURFACE TO ADJACENT SURFACES. PROVIDE EXPANSION JOINT ALONG ENTIRE LENGTH OF PAVEMENT OR CURB EDGES. CROSS SLOPE SHALL BE LEVEL ACROSS GUTTER WIDTH. FLUSH JOINT SHALL BE INSTALLED TO PROVIDE SMOOTH, LEVEL CROSS SLOPE, AND EVEN TRANSITION FROM ONE SURFACE TO ANOTHER ALONG ENTIRE LENGTH. BUMPS, DIPS, RAISED OR LOWERED EDGES, OR OTHER ELEVATION DIFFERENCES WILL NOT BE ALLOWED.

CONSTRUCTION LEGEND:

[ME] MATCH EXISTING:

MATCH EXISTING FINISH GRADE. VERIFY IN FIELD PRIOR TO CONSTRUCTION (PTC).

VERIFY POSITIVE SLOPE TO PROVIDE FLOW AS INDICATED.

[SW] SIDEWALK, RAMP OR STEPS:

CONCRETE SIDEWALK WITH FINISH PER ARCHITECT. SIDEWALK WIDTHS AND DIMENSIONS AT DOORS OR ENTRANCE/EXITS SHALL BE PER ARCHITECTURAL PLANS, MINIMUM WIDTH IS DOOR WIDTH PLUS 1.0 FEET EACH SIDE. PROVIDE POSITIVE SLOPE AWAY FROM DOOR THRESHOLDS OF 1/8 INCH PER FOOT (1.0%) MINIMUM. SIDEWALK SLOPES GREATER THAN 1:20 (0.05 FT./FT.) WILL BE CONSIDERED RAMPS. MAXIMUM SLOPE FOR SIDEWALKS IS 1:12 (0.083 FT./FT.). MAXIMUM SIDEWALK CROSS SLOPE IS 1/4 INCH PER FOOT. SIDEWALKS SHALL BE INSTALLED WITH MINIMUM 6X6 10 GAUGE WWF REINFORCEMENT, 1.5 INCHES FROM BOTTOM. HANDRAILING SHALL BE INSTALLED ON BOTH SIDES OF SIDEWALK RAMPS PER ADA CODE. CONTRACTOR SHALL INSTALL STEPS AND RAILING PER LOCAL CODE(S) AND CONSTRUCTION DETAILS. CONSULT WITH ARCHITECT REGARDING SIDEWALK AND RAILING DETAILS PRIOR TO CONSTRUCTION. MINIMUM RAILING DETAIL REQUIREMENT(S) SHALL COMPLY WITH GEORGIA D.O.T. 9031R OR AS SHOWN ON PLANS AND SPECIFICATIONS. CANOPIES SHALL BE INSTALLED PER ARCHITECTURAL PLANS AND SPECIFICATIONS COORDINATE AND VERIFY ALL SIDEWALK LAYOUT, WIDTH, LOCATION AND FINISH WITH ARCHITECT PRIOR TO CONSTRUCTION.

[TC] TRAFFIC CONTROL:

CONTRACTOR SHALL: PROVIDE 24 HOUR TRAFFIC CONTROL FOR ALL PUBLIC RIGHT-OF-WAY, ROADWAYS, PRIVATE DRIVES, [CA] CONTROLLED ACCESS AREAS, AND ALL AREAS REQUIRING ACCESS. PROVIDE TRAFFIC PLATES OR OTHER APPROVED METHODS FOR ALL AREAS REQUIRING TEMPORARY ACCESS WHICH MAY BE OBSTRUCTED DUE TO REQUIRED UTILITY TRENCH CUTS OR OTHER OBSTRUCTIONS. TRAFFIC CONTROL SHALL CONFORM TO GEORGIA D.O.T STANDARDS AND SPECIFICATIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS. TRAFFIC CONTROL SHALL INCLUDE, BUT NOT BE LIMITED TO: WARNING SIGNS AND DEVICES, LIGHTED DEVICES/SIGNALS FOR NIGHT CONDITIONS, BARRICADES, QUALIFIED FLAGMEN, AND ALL OTHER MEASURES TO INSURE THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC AND WORKMEN, AND TO PROTECT THE WORK. MAINTAIN ALL TRAFFIC CONTROL MEASURES IN GOOD REPAIR, CLEAN AND VISIBLE FOR DAY AND NIGHT OPERATION. ALL LANE CLOSURES SHALL BE COORDINATED WITH AND APPROVED BY THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION.

[TF] TEMPORARY FENCE:

INSTALL TEMPORARY FENCE <u>PER PROJECT SPECIFICATIONS.</u> TEMPORARY FENCE [TF] SHOWN ON PLANS IS IN ADDITION TO TEMPORARY FENCE REQUIRED BY THE SPECIFICATIONS.

MINIMUM HEIGHT IS SIX FEET (6'). TEMPORARY FENCE MUST BE INSTALLED VERTICAL (PLUMB), RIGID AND STABLE, AND WITHOUT GAPS TO PROHIBIT UNAUTHORIZED ENTRY OR REMOVAL. IN PAVED AREAS TO REMAIN [TR] WHERE [TF] IS REQUIRED PORTABLE FENCING MAY BE USED. PORTABLE FENCING MUST BE HEAVY DUTY GRADE COMPLYING WITH PROJECT SPECIFICATIONS AT A MINIMUM SECTIONS SHALL BE CONNECTED AND ATTACHED SECURELY, VERTICAL (PLUMB), STABLE AND RIGID TO PROHIBIT UNAUTHORIZED ENTRY OR REMOVAL. PROVIDE WEIGHTED BOTTOM RAIL OR OTHER MEANS TO PREVENT HORIZONTAL DISPLACEMENT OR MOVEMENT. GATES OR ACCESS POINTS MUST BE MONITORED. SECURED, AND LOCKED [CA]. DO NOT ALLOW ANY UNAUTHORIZED ACCESS AT ANY TIME. WHERE DRIVEN POSTS ARE USED IN AREAS TO REMAIN [TR], PAVEMENTS MUST BE CUT AND PATCHED FOR FULL DEPTH AND ALL IMPROVEMENTS MUST BE RESTORED TO MATCH INDUSTRY STANDARD OR EXISTING CONDITION, WHICHEVER IS GREATER. TEMPORARY FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER/ARCHITECT. INSPECT, REPAIR AND MAINTAIN TEMPORARY AND PORTABLE FENCING DAILY TO

PROHIBIT UNAUTHORIZED ENTRY. SUBMIT ALL MANUFACTURER DETAILS AND SPECIFICATIONS FOR [TF] TEMPORARY FENCE AND PORTABLE FENCE APPROVAL PRIOR TO CONSTRUCTION (PTC).

[VC] VERIFY & COORDINATE:

VERIFY ALL EXISTING IMPROVEMENTS. PROTECT BY ALL MEANS NECESSARY ALL EXISTING IMPROVEMENTS TO REMAIN. COORDINATE RELOCATION, REMOVAL, STORAGE, OR DEMOLITION WITH OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

[VS] VERIFY SLOPE PTC:

VERIFY ALL EXISTING SPOT ELEVATIONS AND CONFIRM THAT POSITIVE SLOPE WILL BE ACHIEVED PER DESIGN AS INDICATED. REPORT ANY ERRORS OR DISCREPANCIES TO ENGINEER IMMEDIATELY FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK. **NO PONDING OR DEPRESSED AREAS WILL BE ALLOWED.**

GRADING NOTES:

 SEE <u>GENERAL CONSTRUCTION NOTES</u> FOR FURTHER INFORMATION RELATING TO SITE DEVELOPMENT AND GRADING IMPROVEMENTS.
 ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION (LAHJ). ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE. SEE EROSION CONTROL PLAN FOR DETAILS.

3. RESERVED

4. ALL UTILITIES SHOWN ON THE PLANS ARE SHOWN ACCORDING TO THE INFORMATION AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR VERTICALLY. GAS LINES SHALL BE LOCATED AND VERIFIED WITH GAS AUTHORITY PRIOR TO CONSTRUCTION. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, ORIGIN, VERIFICATION, PROTECTION, AND MAINTENANCE OF ALL UTILITIES AND UTILITY EASEMENTS WHICH EXIST ONSITE. CONTRACTOR SHALL HAVE ALL UTILITIES FIELD LOCATED BY THE APPROPRIATE AUTHORITY AND COORDINATE ALL EXISTING OR PROPOSED UTILITY CONSTRUCTION, RELOCATION, TAPS OR OTHER ASSOCIATED WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS OR PROBLEMS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES FOR PROPOSED CONSTRUCTION WITH OWNER AND UTILITY AUTHORITY, INCLUDING BUT NOT LIMITED TO: GAS LINES, POWER LINES, CABLE TV OR TELEPHONE, IT LINES, IRRIGATION LINES, AND OTHER ASSOCIATED UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. RESOLVE

ALL CONFLICTS OR PROBLEMS PRIOR TO CONSTRUCTION. 5. ALL CUT AND FILL GRADING OPERATIONS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL/SOILS ENGINEER. SUBSURFACE SOIL CONDITIONS WHICH MAY BE ENCOUNTERED, SUCH AS UNDERGROUND SPRINGS, HIGH WATER TABLE, ROCK OR UNSUITABLE SOILS, SHALL BE RESOLVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. IN THE ABSENCE OF A QUALIFIED SOILS ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR ALL SOILS AND CONSTRUCTION SELECTED FOR ANY USE IN COMPLETING THE WORK. 6. PWH ENGINEERING, INC., IS NOT RESPONSIBLE FOR SUITABILITY, STRUCTURAL INTEGRITY, COMPACTION, CUT OR FILL QUANTITY OF ANY SOILS SELECTED OR REQUIRED FOR USE IN THE COMPLETION OF THE WORK. 7. <u>MINIMUM</u> COMPACTION FOR ALL FILL IS 95% MAXIMUM DRY DENSITY PER ASTM D698, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER, OR AS SPECIFIED IN THE GEOTECHNICAL SOILS SUBSURFACE EVALUATION ANALYSIS

AND REPORT, WHICHEVER IS GREATER. 8. MAXIMUM CUT OR FILL SLOPE IS 2H:1V UNLESS SPECIFIED OTHERWISE. 9. MINIMUM FLOOR ELEVATIONS SHOWN ARE BASED UPON EXISTING CONDITIONS, PROPER FUNCTIONING OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS. ANY RESTRICTIONS OR ALTERATIONS TO THESE ELEMENTS MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS.

10. CONTRACTOR SHALL PROVIDE POSITIVE SLOPE AWAY FROM ALL BUILDINGS, FINISHED FLOORS, AND STRUCTURES WHICH MAY BE DAMAGED BY WATER INTRUSION FOR A MINIMUM OF 5.0 FEET HORIZONTALLY. 11. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. NO PERSON SHALL ENTER ANY MANHOLE OR OTHER UNDERGROUND STRUCTURE, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, EXCAVATION, AND EARTHWORK SHALL CONFORM TO OSHA STANDARDS FOR SAFETY, SHORING, AND BRACING.

12. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTY OR EXISTING UTILITIES OR IMPROVEMENTS DUE TO CONSTRUCTION REQUIRED TO COMPLETE THE WORK. ALL DAMAGED PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR. 13. LINE OF SIGHT DISTANCE AT INTERSECTIONS SHALL BE MAINTAINED PERMANENTLY FREE AND CLEAR OF ALL OBSTRUCTION.

14. FINISHED GRADES LESS THAN 1.0% (1 FT. PER 100 FT.) MAY BE REQUIRED DUE TO SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS NECESSARY TO PROVIDE GRADES WITHOUT PONDING OR DEPRESSED AREAS.

15. FLOW ARROWS AND SPOT ELEVATIONS SHOWN DETERMINE DESIGN INTENT. WHERE CONFLICTS OCCUR BETWEEN FLOW ARROWS AND SPOT ELEVATIONS NOTIFY ENGINEER IMMEDIATELY AND RESOLVE PRIOR TO CONSTRUCTION.

16. CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT.

17. OWNER IS RESPONSIBLE FOR COMPLIANCE WITH CLEAN WATER ACT, USACE WETLANDS AND SECTION 404 PERMITTING.

18. THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT GEORGIA NPDES PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IMMEDIATELY AND THROUGHOUT

CONSTRUCTION. CONTRACTOR SHALL SIGN, CERTIFY, AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND ANY OTHER RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED FOR FULL COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IN A TIMELY MANNER THROUGHOUT CONSTRUCTION.

19. ALL SOILS USED FOR FILL IN EARTHEN DAMS OR WATER IMPOUNDMENT AREAS SHALL BE ML OR CL LOW PLASTICITY CLAYS PER THE UNIFIED SOIL CLASSIFICATION, APPROVED BY THE GEOTECHNICAL ENGINEER. ALL ORGANICS, TOPSOIL, OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ENTIRE FILL AREA. ALL FILL SHALL BE PLACED IN MAXIMUM 6 INCH LIFTS, MINIMUM COMPACTION IS 95% OF STANDARD MAXIMUM DENSITY. NO GRAVEL, AGGREGATE OR GRAVEL PIPE BEDDING, OR ANY PERVIOUS MATERIAL SHALL BE PLACED IN THE DAM OR FILL AREA(S). SCARIFY EXISTING SUBGRADE PRIOR TO PLACING FILL.

20. ALL STORM SEWER STRUCTURES, PIPING, AND APPURTENANCES SHALL BE COMPLETELY CLEANED AND FREE OF ALL TRASH, DEBRIS, SEDIMENT, SILT, OR OTHER UNSUITABLE MATERIALS.

21. EXISTING STORM SEWER CAPACITY AND SERVICE LEVEL WILL NOT BE INCREASED OR ENHANCED BY PROPOSED DESIGN.

22. WET SOILS WILL NOT BE CONSIDERED UNSUITABLE AND WET SOIL REMEDIATION WILL NOT BE ADDITIONAL COST TO THE OWNER. REMEDY WET SOILS PER GEOTECH ENGINEER.

GENERAL CONSTRUCTION NOTES:

1. LAHJ = LOCAL AUTHORITIES HAVING JURISDICTION.

2. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM, AT A MINIMUM, TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LAHJ. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CURRENT APPLICABLE STANDARDS, SPECIFICATIONS, AND DETAILS OF THE LAHJ. ALL DISCREPANCIES BETWEEN THESE STANDARDS AND THE CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE REPORTED IMMEDIATELY FOR RESOLUTION PRIOR TO CONSTRUCTION.

WHEN ANY CONSTRUCTION, MATERIALS, OR SPECIFICATIONS FOR THE SAME OR SIMILAR ITEM(S) OR REQUIREMENTS ARE SHOWN IN MORE THAN ONE PLACE IN THE CONSTRUCTION DOCUMENTS, PLANS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY AS DETERMINED BY THE ENGINEER.

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEDERAL, STATE, OSHA, AND LOCAL SAFETY REGULATIONS, LAWS, CODES OR ORDINANCES WHICH MAY APPLY.

4. THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS FOR ERRORS, OMISSIONS, DISCREPANCIES, OR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ERRORS OR OMISSIONS IN THE PLANS, OR BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS, IMMEDIATELY. ANY WORK DONE AFTER SUCH DISCOVERY, WITHOUT APPROVAL, IS AT THE CONTRACTOR'S RISK.

5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM THE SITE AT ALL TIMES. UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY INTERRUPTION OF ACCESS OR UTILITIES WITH THE OWNER PRIOR TO THE INTERRUPTION.

6. ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF OFFSITE IN A LEGAL MANNER. 7. ALL UTILITIES SHOWN ON THE PLAN ARE SHOWN ACCORDING TO INFORMATION AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, ORIGIN, VERIFICATION, PROTECTION AND MAINTENANCE OF ALL UTILITIES WHICH EXIST ONSITE OR MAY BE IMPACTED BY THE WORK. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED AND MARKED BY THE APPROPRIATE AUTHORITIES AND COORDINATE ALL UTILITY CONSTRUCTION, TAPS, OR OTHER ASSOCIATED WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ANY CONFLICTS OR ERRORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNERS, BOUNDARY, MONUMENT, AND BENCHMARKS THROUGHOUT CONSTRUCTION.

 CONTRACTOR SHALL REVIEW ALL SITE IMPROVEMENTS, WALKS, PARKING, PAVEMENT, BUILDINGS, STRUCTURES, OR OTHER IMPROVEMENTS SHOWN ON THESE PLANS FOR CONFORMITY WITH THE CURRENT APPROVED ARCHITECTURAL AND RELATED ENGINEERING PLANS. RESOLVE ALL CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
 CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, LIGHTS, OR OTHER DEVICES FOR THE SAFETY AND PROTECTION OF ALL PERSONS ON THE SITE. FOR TRAFFIC SAFETY, IN THE ABSENCE OF SPECIFIC TRAFFIC REQUIREMENTS OF THE LAHJ, THE MANUAL FOR UNIFORM TRAFFIC SAFETY CONTROL DEVICES SHALL BE USED.

10. PROPOSED BUILDING AND STRUCTURE LOCATIONS ARE SHOWN BASED ON ARCHITECTURAL PLANS PROVIDED. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS, EXISTING AND PROPOSED, JUNCTIONS, COMMON POINTS, AND LAYOUT GEOMETRY AS REQUIRED FOR COMPLETION OF THE WORK.

11. MINIMUM PIPE BEDDING FOR ALL PIPING SHALL CONFORM TO GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE. UNSUITABLE, WET, SPONGY, OR SOFT SOILS WILL REQUIRE ADDITIONAL BEDDING DESIGN AND CONSTRUCTION, AND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE AFFECTED WORK.

12. BOUNDARY, TOPOGRAPHIC, VERTICAL AND HORIZONTAL SURVEY DATA PROVIDED BY OTHERS. PWH ENGINEERING, INC. IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS, OR OTHER DEFECTS ARISING FROM OR RELATED TO ANY INFORMATION OR DATA PROVIDED BY OTHERS. 13. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH THE LAHJ FOR START OF CONSTRUCTION AND INSPECTION PROCEDURES.

14. ALL CONSTRUCTION DETAILS SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW AND VERIFY ALL CONSTRUCTION DETAILS FOR COMPLIANCE WITH CURRENT REFERENCED STANDARDS AND THE LAHJ.

15. THE CONTRACTOR, AND ANY SUBCONTRACTORS, ARE RESPONSIBLE FOR ALL SAFETY DEVICES AND EQUIPMENT REQUIRED FOR COMPLETION OF THE WORK. NO PERSON SHALL ENTER ANY MANHOLE, OR UNDERGROUND STRUCTURE, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, AND EXCAVATION SHALL CONFORM TO OSHA STANDARDS FOR SHORING AND BRACING.

16. MINIMUM FINISHED FLOOR ELEVATIONS WHICH MAY BE SHOWN ARE BASED UPON EXISTING CONDITIONS AND PROPER FUNCTION OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS. ANY RESTRICTION, DAMAGE, OR ALTERATION TO THESE ELEMENTS, EXISTING OR PROPOSED, MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS. 17. CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT.

18. THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT GEORGIA NPDES PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL SIGN, CERTIFY, AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND ANY OTHER RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED FOR FULL COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IN A TIMELY MANNER THROUGHOUT CONSTRUCTION.

19. NO PARKING FOR CONTRACTORS OR SUBCONTRACTORS WILL BE ALLOWED ON PUBLIC STREETS OR RIGHT OF WAY.

20. ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE SAW CUT.

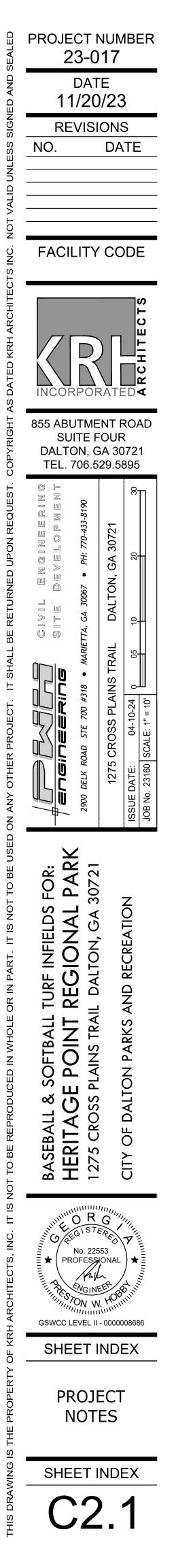
21. ALL PARKING AREAS AND ADA SPACES SHALL BE STRIPED ACCORDING TO MUTCD, ADA AND LOCAL AUTHORITY STANDARDS. ALL PAINT, MATERIALS, AND CONSTRUCTION SHALL CONFORM, AT A MINIMUM, TO GDOT SPECIFICATIONS.

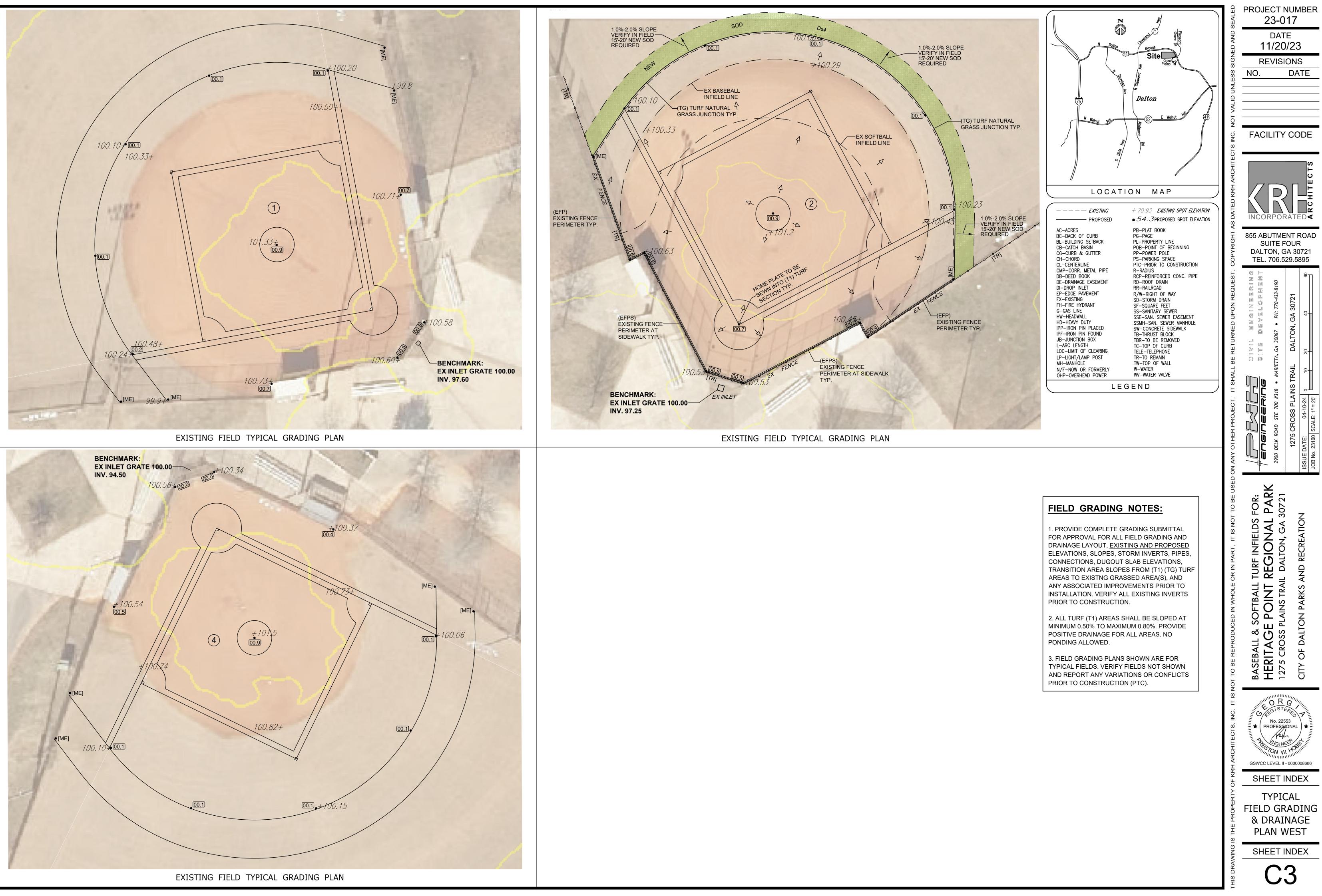
22. CONTRACTOR SHALL COORDINATE WITH AUTHORIZED REPRESENTATIVE FOR OWNER AND CONFIRM AND OBTAIN APPROVAL PTC FOR ALL DAILY CONSTRUCTION ACTIVITIES SCHEDULED AND ANY IMPACT ON REQUIRED OWNER ACTIVITIES, EVENTS, NORMAL OPERATIONS, OR ACCESS WHICH MAY BE AFFECTED IN ANY WAY. DO NOT ALLOW PEDESTRIANS, PUBLIC, VISITORS, OR OTHER UNAUTHORIZED PERSON(S) TO ENTER WORK AREAS. WORK AND STORAGE AREA(S) SHALL BE FENCED [TF] AND SECURE [CA] AT ALL TIMES FOR ALL PHASES OF CONSTRUCTION. FOUL OR OFFENSIVE LANGUAGE, IMPROPER OR REVEALING CLOTHING OR ATTIRE, ALCOHOL, FIREARMS, DRUGS, OR OTHER INAPPROPRIATE

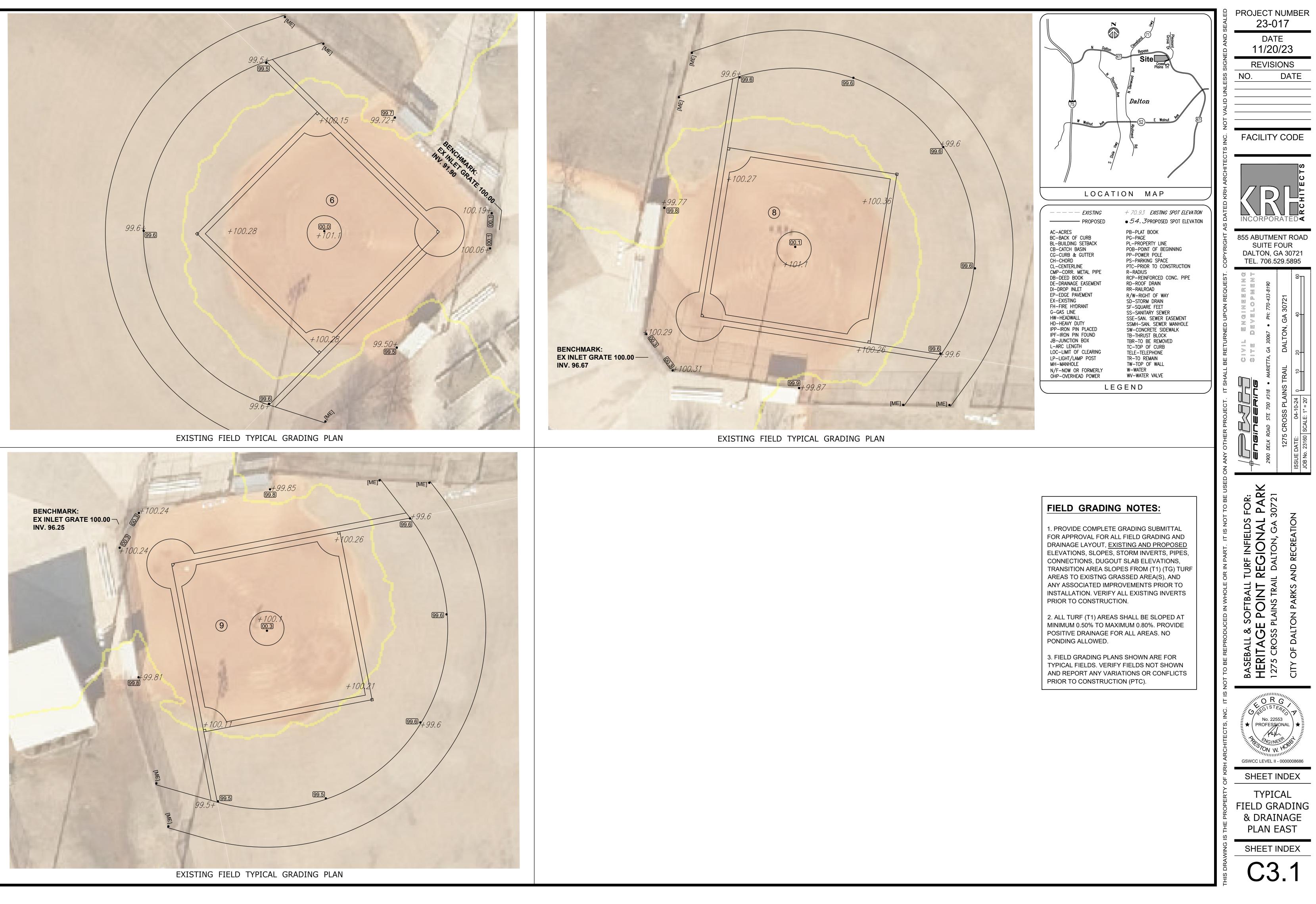
BEHAVIOR AS DETERMINED BY OWNER IS STRICTLY PROHIBITED. ANY INTERACTION OR CONTACT WITH STAFF, EMPLOYEES, OR VISITORS IS STRICTLY PROHIBITED AT ALL TIMES. ALL COORDINATION AND COMMUNICATION SHALL BE THROUGH THE DESIGNATED OWNER AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL OWNER REQUIREMENTS, STANDARDS, POLICIES, RULES AND SPECIFICATIONS FOR OWNER'S PROPERTY.

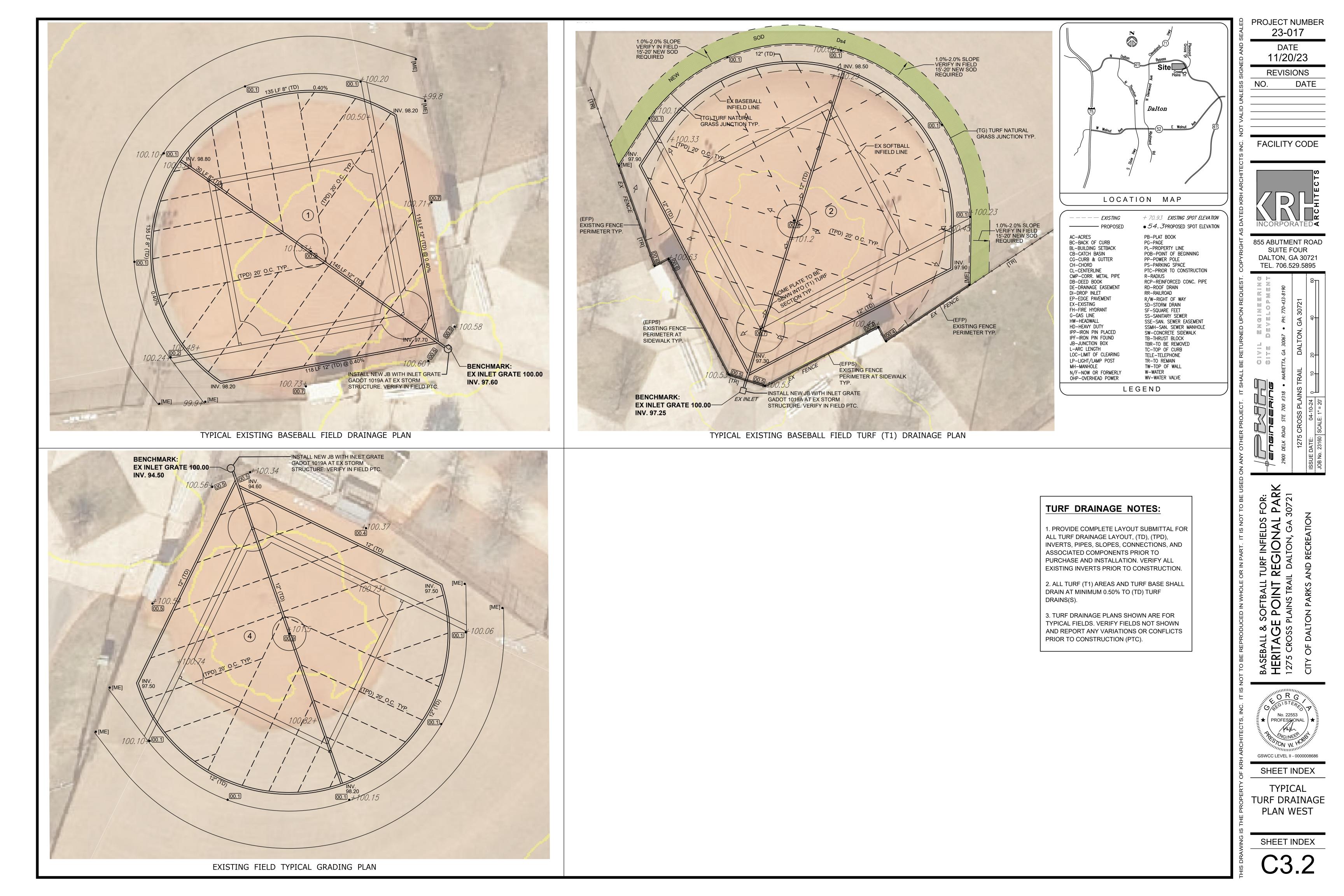
NO PARKING IN THE RIGHT OF WAY IS ALLOWED. ALL CONSTRUCTION TRAFFIC MUST BE COORDINATED WITH [TC] AT ALL TIMES WITH NO INTERRUPTION OF ACCESS FOR OWNER ACITIVITIES OPERATIONS.

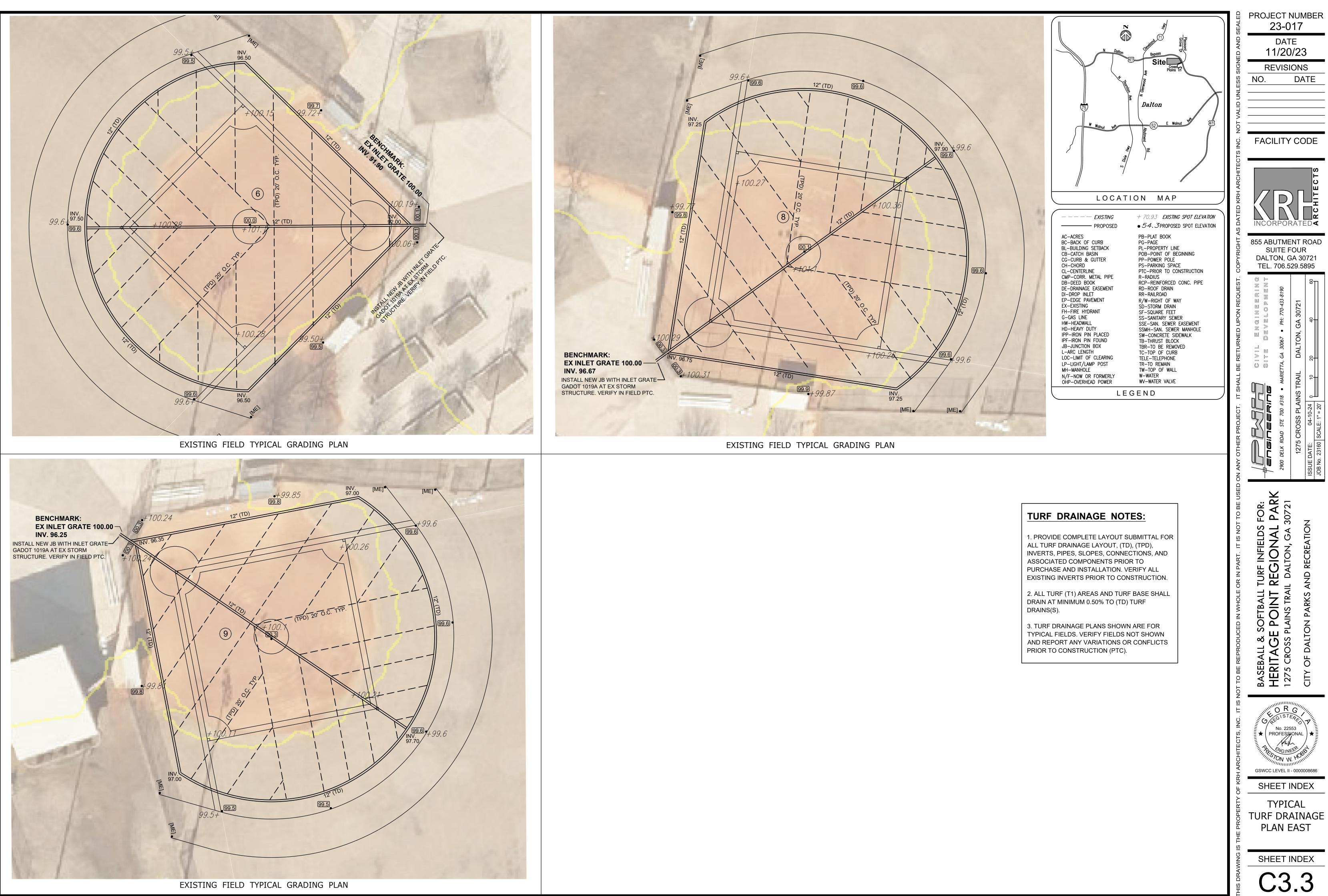
23. DESIGN IS BASED ON SURVEY INFORMATION PROVIDED BY OTHERS. ENGINEER IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS IN ANY INFORMATION PROVIDED BY OTHERS.











EROSIO

SWCD:

Project Name: Heritage Park Athletic Local Issuing Authority: WHITFIE Name & Email of person filling out Plan Included Page # Y/N C6 Y 1 The applicable Erc as of January 1 of

C6-6.12 Y 2 Level II certificatio

C6.2-6.6 Y 3 Limits of disturban

C6.1Y4The name and phoneC6.1Y5Provide the name, atC6.1Y6Note total and distureC6.3Y7Provide the GPS loceC6-6.12Y8Initial date of the PlaceC6-6.12Y9Description of the national distureC6-6.12Y10Provide vicinity mapC6-6.12Y11Identify the project residential areas, we have C6.1 Y 12 Design professional ES&PC Plan as st

C6.1 Y 13 Design profession C6.1 Y 14 Clearly note the st

C6.1 Y 15 Clearly note the s

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST STAND ALONE CONSTRUCTION PROJECTS	C6.1 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
SWCD:	C6.1 Y 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of
ritage Park Athletic Field Renovations Address:	erosion and sediment control measures and practices prior to land disturbing activities."
nority: <u>WHITFIELD COUNTY</u> Date on Plans: <u>04-10-24</u> person filling out checklist: <u>PRESTON HOBBY P.E.</u> pwhengineering@bellsouth.net	C6.1 Y 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures
TO BE SHOWN ON ES&PC PLAN	shall be implemented to control or treat the sediment source."
1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.	C6.1 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)	C6.2-6.6 Y 22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile
2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)	upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. *	NA 23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
(A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)	C6.2-6.6 Y 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout
4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.	of the drum at the construction site is prohibited. *
5 Provide the name, address, email address, and phone number of primary permittee.	C6.1 Y 25 Provide BMPs for the remediation of all petroleum spills and leaks.
6 Note total and disturbed acreages of the project or phase under construction.	C6.1 Y 26 Description of the measures that will be installed during the construction process to control pollutants in storm
7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.	water that will occur after construction operations have been completed. *
8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.	C6.1 Y 27 Description of practices to provide cover for building materials and building products on site. *
9 Description of the nature of construction activity and existing site conditions.	C6.1 Y 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.	C6.1 Y 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major
11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.	portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
12 Design professional's certification statement and signature that the site was visited prior to development of the	C6.11 Y 30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
ES&PC Plan as stated on Part IV page 19 of the permit.	C6.11 Y 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate	C6.11 Y 32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit. *	C6.11 Y 33 Description of analytical methods to be used to collect and analyze the samples from each location. *
14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the	C6.11 Y 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit. *	C6.2-6.6 Y 35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. *
15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits "	C6.1 Y 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter

variances and permits." NA16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.C6.1Y17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on

BMPs with a hydraulic component must be certified by the design professional." $\,^{*}$

		APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.
		The four items chosen must be appropriate for the site conditions.
Plan Page #	Included Y/N	
		a. During construction activities, double the width of the 25-foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50-foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b. Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		c. Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
26.3-6.7	Y	 d. A large sign (minimum 4 feet x 8 feet) must be posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
		e. Use flocculants or coagulants and/or mulch to stabilize areas left disturbed for more than seven (7) calendar days in accordance with Part III. D.1. of the current NPDES Permits.
		f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24-hour period, recognizing the exceptions specified in Part IV.D.6.d. of the current NPDES Permits.
		g. Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		 Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the Plan.
		i. Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned site, whichever is less. All calculations must be included on the Plan.
		 J. Use "Dirt II" techniques available on the EPD website to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k. Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
		I. Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
26.8-6.10	Υ	m. Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25-year, 24-hour rainfall event.
		 N. Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
26.8-6.10	Υ	 Install sod for a minimum 20-foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
C6.8-6.10	Y	p. Conduct soil tests to identify and to implement site-specific fertilizer needs.
		q. Certified personnel for primary permittees shall conduct inspections at least twice every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a.(3)(a) – (c); secondary permittees, Part IV.D.4.b.(3)(a) – (c); and tertiary permittees Part IV.D.4.c.(3)(a) – (c) *
		r. Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.

control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine

all of the BMPs into a single phase. $\,$ *

	<pre> B PROJECT NUMBER</pre>
	Ω.
	< 11/00/00
C6.2-6.6 Y 37 Graphic scale and North arrow. C6.2-6.6 Y 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:	REVISIONS
Map Scale Ground Slope Contour Intervals, ft.	% NO. DATE
1 inch = 100ft or Flat 0 - 2% 0.5 or 1 larger scale Rolling 2 - 8% 1 or 2	
Steep 8% + 2,5 or 10 NA 39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to	
conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at	> ⊥
www.gaswcc.georgia.gov. NA 40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual	Ö z
for Erosion & Sediment Control in Georgia 2016 Edition. *	
C6.2-6.6 Y 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.	
C6.1 Y 42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.	TIS
Y 43 Delineation and acreage of contributing drainage basins on the project site. Y 44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *	
C6.1 Y 45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.	
C6.2-6.6 Y 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.	DATED KRH ARCHITECTS
C6.2-6.6 Y 47 Soil series for the project site and their delineation.	INCORPORATED
C6.2-6.6 Y 48 The limits of disturbance for each phase of construction. C6.1 Y 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin,	부 855 ABUTMENT ROAD 의 SUITE FOUR
retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment	SUITE FOUR → DALTON, GA 30721 O TEL. 706.529.5895
storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a	Ö TEL. 706.529.5895
sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must	
also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging	DN REQUE
from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible,	
a written justification explaining this decision must be included in the Plan. C6.2-6.9 Y 50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for	
Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.	ETURNEE E 30067 • DALTON,
51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.	
C6.2-6.9 Y 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting	
dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.	SHALL E
* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.	
Effective January 1, 2024	
	OTHER DELK ROA 1275 C DATE: DATE:
	N ANY 2900 JOB No.
s. Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and	
Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at <i>www.gaswcc.georgia.gov</i>)	OR: ZZ1 Z21
t. Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the Plan.	OT TO S FO N 307 DN
u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Part	IT IS NOT IELDS V, GA 3 EATION
IV.A.5 of the permit. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan	
 to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase. v. Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in 	OR IN PART. TURF INI REGIO IL DALTO AND RECR
the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.	TURF TURF TURF TURF I DAL
* This requirement is different for infrastructure projects:	
Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or	VHC TBA IS T VAR
greater in accordance with Part IV.D.4.a.(3)(a) – (c) of the permit.	
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	EROSION CONTROL
	<u>v</u>
	SHEET INDEX

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES: (NOTES CORRESPOND TO STANDALONE CHECKLIST)

- 5. PRIMARY PERMITTEE: ERIC PATTERSON 706-876-7280
- 1306 SOUTH THORNTON AVENUE DALTON, GA 30720 6. TOTAL ACREAGE: 87.57 ACRES DISTURBED ACREAGE: 14.0 ACRES

Certified By

Certified Bv

- VARIANCES AND PERMITS. 16. NO BUFFER VARIANCE IS REQUIRED.
- A SECTION 404 PERMIT
- MULCH OR TEMPORARY SEEDING.
- CONSTRUCTION SITE IS PROHIBITED. PREVENT FUTURE SPILLS. STATE, AND FEDERAL REGULATIONS. SPILL CLEANUP AND CONTROL PRACTICES:
- 1-800-426-2675 24 HOURS.
- AGENCIES WILL BE CONTACTED AS REQUIRED. COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONA
- 28. PRODUCT SPECIFIC PRACTICES: PETROLEUM BASED PRODUCTS -PAINTS/FINISHES/SOLVENTS -
- FERTILIZER/HERBICIDES -**BUILDING MATERIALS -**
- 33. STORMWATER SAMPLING: SAMPLE ANALYSIS: BE PREPARED BY THE EPD.
- ALL DISTURBED AREAS AS SHOWN ON SHEET C6.4.
- 45. RUNOFF COEFFICIENT WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 87
- 49. SEDIMENT STORAGE: INFILTRATION WITH GREATER CAPACITY FOR HIGHER STORM FREQUENCIES.

4. 24 HR. LOCAL CONTACT: ERIC PATTERSON 706-581-3565

9. PROPOSED CONSTRUCTION IS NEW ATHLETIC FACILITIES WITH SIDEWALKS, PARKING, DRIVES, FENCES, GRADING, SEWER, UTILITIES, AND ASSOCIATED IMPROVEMENTS AS SHOWN 12. I CERTIFY UNDER THE PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE

LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION. 8686

PRESTON W. HOBBY 03-22-24 Printed Name GSWCC LEVEL II Date

13. I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS MEETS THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT No. GAR 100001.

03-22-24

14. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. 15. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY

17. AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. 18. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY

19. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

20. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASUES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. 21. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH

24. CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF VEHICLES SHALL BE DONE IN DESIGNATED CONCRETE WASHOUT (Cw) AS SHOWN ON PLANS. WASHOUT OF THE DRUM AT THE

25. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL,

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) THE NATIONAL RESPONSE CENTER (NRC)

WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN

FOR SPILLS LESS THAN THAT 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND

26. TEMPORARY SEDIMENT TRAPS, RETROFITS, OR SEDIMENT BASINS WILL BE INSTALLED AS SHOWN TO CONTROL SEDIMENT. WATER QUALITY DEVICE(S) AND WQv VOLUME WILL BE INSTALLED /PROVIDED TO TREAT IMPERVIOUS AREAS POST CONSTRUCTION. 27. PLASTIC SHEETING, TARPS, AND TEMPORARY ROOFS WILL BE INSTALLED TO COVER TRASH, BUILDING MATERIALS OR PRODUCTS, CONSTRUCTION WASTES, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, CLEANING MATERIALS, SANITARY WASTES, AND ALL OTHER SUCH MATERIALS OR SUBSTANCES TO MINIMIZE EXPOSURE TO PRECIPITATION AND DISCHARGE TO STORMWATER.

BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT. MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OD THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

ALL SUCH MATERIAL WILL BE DISPOSED OF USING PROPER WASTE DISPOSAL PROCEDURES.

STORM WATER SAMPLES SHALL BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT SAMPLING LOCATION (S) SHOWN OR DESIGNATED ON THE APPROVED E&SC PLANS. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 50 NTU, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT No. GAR100001. THE NTU IS BASED UPON SITE ACREAGE OF 20.10 ACRES TOTAL FOR THE PROJECT SITE, THE SURFACE DRAINAGE AREA OF

0-4.99 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

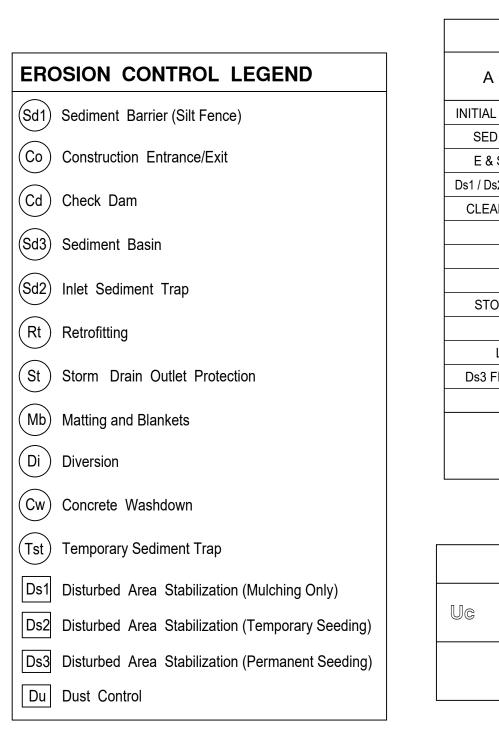
36. APPROPRIATE CONTROLS AND MEASURES WILL INCLUDE: INITIAL SEDIMENT STORAGE AND PERIMETER CONTROLS AS SHOWN ON SHEET C6.3 WITH MINIMUM DISTURBANCE. INTERMEDIATE CONTROLS WILL INCLUDE TEMPORARY SEDIMENT STORAGE, TEMPORARY AND PERMANENT STABILIZATION, AND STORM OUTLET PROTECTION AS SHOWN ON SHEET C6.3. FINAL STABILIZATION INCLUDES (Ss) SLOPE STABILIZATION, LANDSCAPING, AND ESTABLISHMENT OF PERMANENT GRASSING ON

41. ALL STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE ARE SHOWN.

42. ALL WETLANDS AND STATE WATERS LOCATED ON OR WITHIN 200 FEET OF THE PROJECT SITE ARE SHOWN. 44. HYDROLOGY STUDY AND STORMWATER MANAGEMENT PROPOSED, COPY OF HYDRO STUDY ATTACHED WITH SUBMITTAL.

WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 83

FLOATING SKIMMER IS INFEASIBLE. A PERMANENT Rt RETROFIT AND FILTRATION DEVICE (#57 STONE) WILL PROVIDE INCREASED



LOCAL AUTHORITY EROSION CONTROL NOTES:

1. ALL MATERIALS, CONSTRUCTION, AND VEGETATIVE PRACTICES SHALL CONFORM TO THE "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA", CURRENT EDITION.

2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE PAD (CO) AT ALL TIMES IN A CONDITION WHICH WILL PREVENT THE TRACKING OR FLOW OF MUD OR SILT ONTO PUBLIC STREETS OR RIGHT-OF-WAY.

3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF ALL EROSION CONTROL MEASURES AND PRACTICES AS SHOWN ON THE PLANS PRIOR TO ANY LAND-DISTURBING ACTIVITIES.

4. THIS SITE IS NOT WITHIN A 100 YEAR FLOOD HAZARD PER FEMA F.I.R.M. MAP 13313C130D & **13313C135D**, DATED 04-17-2012.

5. OWNER / DEVELOPER:

CITY OF DALTON PARKS AND RECREATION

24 HOUR CONTACT: 6. EXISTING LAND USE

THE SITE IS CURRENTLY DEVELOPED AS A PARK WITH PARKING, DRIVES, ATHLETIC FIELDS, GRASSED, OPEN AND WOODED AREAS. GROUND COVER IS SOIL, GRASS, SMALL BRUSH, WITH PARTIAL WOODED AREAS. THE SITE IS LOCATED AT

, DALTON, GA 30721, WHITFIELD COUNTY, GEORGIA. PROPOSED CONSTRUCTION IS NEW TURF INFIELDS FOR EXISTING ATHLETIC FIELDS, GRADING, STORM SEWER, UTILITIES, AND RENOVATIONS WITH ASSOCIATED IMPROVEMENTS AS SHOWN.

7. ADDITIONAL EROSION CONTROL MEASURES OR DEVICES MAY BE REQUIRED BY THE LOCAL AUTHORITY OR THE ENGINEER. 8. THE CONTRACTOR SHALL MAINTAIN AND INSPECT EROSION CONTROL MEASURES ON A DAILY BASIS, AND AFTER EACH STORM EVENT, ALL EROSION CONTROL DEVICES SHALL BE CLEANED OF SEDIMENT AS REQUIRED FOR PROPER FUNCTION AND ALL SEDIMENT SHALL BE REMOVED FROM EVERY DEVICE AFTER EACH RAINFALL EVENT.

9. ALL DISTURBED AREAS SHALL BE TEMPORARILY AND PERMANENTLY GRASSED OR LANDSCAPED USING VEGETATIVE PRACTICES AS SHOWN ON THE PLANS AND SPECIFICATIONS. TEMPORARY GRASSING NOT MEETING PERMANENT GRASSING SPECIFICATION SHALL BE COMPLETELY REMOVED AND ERADICATED PRIOR TO INSTALLATION OF PERMANENT GRASSING. 10. THE CONTRACTOR SHALL NOT ENCROACH OR DISTURB IN ANY WAY THE STATE AND LOCAL DESIGNATED STREAM OR CREEK BUFFERS WHETHER SHOWN ON THE PLANS OR NOT. ALL STATE WATERS SHALL HAVE A MINIMUM 25 FOOT UNDISTURBED BUFFER AREA FROM THE TOP EDGE OF THE CREEK BANK ON EACH SIDE. LOCAL AUTHORITIES MAY HAVE BUFFER WIDTHS GREATER THAN 25 FEET. CONTRACTOR SHALL VERIFY BUFFER WIDTH WITH LOCAL AUTHORITY PTC AND MAINTAIN BUFFER AT ALL TIMES.

11. SEE EROSION CONTROL DETAILS FOR DETAILS OF EROSION CONTROL MEASURES AND DEVICES. 12. LOCAL AUTHORITY LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES AND IN PLAIN VIEW FROM A

ROAD OR STREET. 13. INSTALL EROSION CONTROL MATS OR EQUIVALENT MATERIALS ON SLOPES EQUAL TO OR GREATER THAN 4H:1V AND 10

FOOT VERTICAL. 14. STABILIZE SLOPES, INSTALL (MB) MATTING AND BLANKETS AND VEGETATIVE COVER AS SOON AS FINAL GRADE IS COMPLETE.

15. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY, AFTER EACH RAIN, AND REPAIRED AND CLEANED AS NECESSARY.

16. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED NECESSARY AFTER ON-SITE INSPECTION.

17. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171 - TYPE C TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 1993 EDITION. 18. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A MINIMUM 25 FOOT BUFFER ALONG THE BANKS OF ALL

STATE WATERS, AS MEASURED HORIZONTALLY FROM FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS GRANTED A VARIANCE, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PLANS AND IMPLEMENTED.

NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS CLASSIFIED AS TROUT STREAMS, AS MEASURED HORIZONTALLY FROM FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS GRANTED APPROVAL FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH O.C.G.A. 12-7-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PLANS AND IMPLEMENTED.

19. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.

NPDES MONITORING NOTES

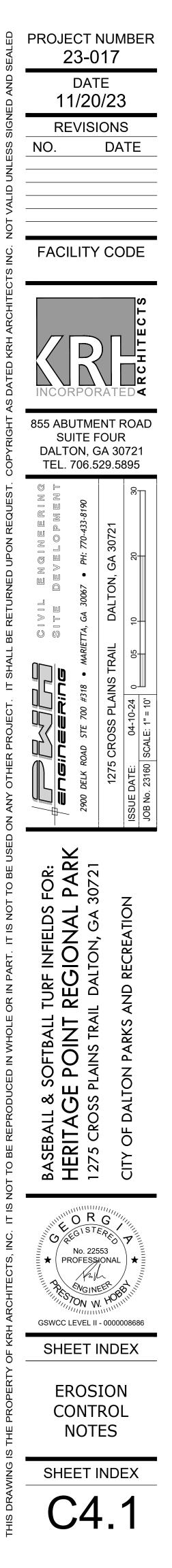
1. CONTRACTOR IS RESPONSIBLE FOR FULL COMPLIANCE WITH ALL NPDES NOTIFICATION, MONITORING, DOCUMENTATION, RECORD KEEPING, AND PERMIT REQUIREMENTS. COPY OWNER IMMEDIATELY ON ALL DOCUMENTATION REQUIRED.

2. CONTRACTOR SHALL PROVIDE ADDITIONAL BMP'S AS NOTED PER APPENDIX 1

	MONTHS												
ACTIVITY	5/24	7/24	9/24	11/24	1/25	3/25	5/25	7/25	9/25	11/25	1/26	3/26	5/26
NITIAL / PERIMETER BMP'S		ſ											
SED. STORAGE BMP'S		ſ											
E & SC MAINTENANCE													
0s1 / Ds2 TEMP. STABILIZATION													
CLEARING & GRUBBING													
GRADING													
BUILDING (S)													
UTITLITIES													
STORM / SAN. SEWER													
PAVEMENT													
LANDSCAPING													
Ds3 FINAL STABILIZATION													
THE ESCAPE C				ОМ ТН	IE SIT	E SH			VENT	ED B	Y THE		

SOILS LEGEND

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(3). Off-site vehicle tracking of dirt, soils, and sediments and the generation of dust shall be minimized or eliminated to the maximum extent practical. The Plan shall include the best management practice to be implemented at the site or construction activity.

(4). Nothing in this permit relieves a permittee from any obligation to comply with all applicable State and local regulations of waste disposal, sanitary sewer, septic and petroleum storage systems.

(5). The Plan shall include best management practices for the remediation of all petroleum spills and leaks as appropriate.

(6). The Plan shall include best management practices for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of vehicles. Washout of the drum at the construction site is prohibited. Additional information about best management practices for concrete washout is available at the USEPA website.

(7). All permittees are required to minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

4. Inspections

a. Permittee requirements

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

twice-(3). Certified personnel/(provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or

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> any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

> (4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination has been submitted) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

> (5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

> (6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion,

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(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the stormwater discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained;

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

(e). Existing construction activities, i.e., those that are occurring on or 3. All written correspondence required by this permit shall be submitted by return receipt before the effective date of this permit, that have met the sampling certified mail (or similar service) to the appropriate District Office of the EPD according to the required by (a) above shall sample in accordance with (b). Those existing schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal construction activities that have met the sampling required by (b) above at the construction site or the proof of submittal shall be readily available at a designated location shall not be required to conduct additional sampling other than as required from commencement of construction until such time as a NOT is submitted in accordance with by (c) above. Part VI.

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identified in the site plan.

map;

location;

the time line for submittal.

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accordance with Part V.G.2. of this permit.

The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements* shall include the following:

Sedimentation and Pollution Control Plan. The report shall be signed in

(1). A USGS topographic map, a topographic map or a drawing (referred to as a

topographic map) that is a scale equal to or more detailed than a 1:24000 map

showing the location of the site or the stand alone construction; (a) the location of

all perennial and intermittent streams and other water bodies as shown on a USGS

topographic map, and all other perennial and intermittent streams and other water

bodies located during mandatory field verification, into which the stormwater is

discharged and (b) the receiving water and/or outfall sampling locations. When

the permittee has chosen to use a USGS topographic map and the receiving

water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the

stormwater(s) enters the receiving water(s) to the point where the receiving

water(s) combines with the first blue line stream shown on the USGS topographic

(2). A written narrative of site specific analytical methods used to collect, handle

and analyze the samples including quality control/quality assurance procedures.

This narrative must include precise sampling methodology for each sampling

(3). When the permittee has determined that some or all outfalls will be sampled,

a rationale must be included on the Plan for the NTU limit(s) selected from

Appendix B. This rationale must include the size of the construction site, the

calculation of the size of the surface water drainage area, and the type of receiving

(4). Any additional information EPD determines necessary to be part of the Plan.

EPD will provide written notice to the permittee of the information necessary and

water(s) (i.e., trout stream or supporting warm water fisheries); and

5. Maintenance. The Plan shall include a description of procedures to ensure the timely

maintenance of vegetation, erosion and sediment control measures and other protective measures

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in

receiving water(s) or outfalls in accordance with this permit. This paragraph shall not apply to

any land disturbance associated with the construction of single-family homes which are not part

of a subdivision or planned common development unless five (5) acres or more will be disturbed.

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b. Sample Type. All sampling shall be collected by "grab samples" these samples must be conducted in accordance with methodology established by 40 CFR Part 136 (unless other test procedures have guidance document titled "NPDES Storm Water Sampling Guidan 833-B-92-001" and guidance documents that may be prepared by the

(1). Sample containers should be labeled prior to collecting the

(2). Samples should be well mixed before transferring to a seco

(3). Large mouth, well cleaned and rinsed glass or plastic jars collecting samples. The jars should be cleaned thoroughly to ave

(4). Manual, automatic or rising stage sampling may be utilized by this permit should be analyzed immediately, but in no case after collection. However, samples from automatic samplers m later than the next business day after their accumulation, u automated analysis is utilized. If automatic sampling is utilized sampler is not activated during the qualifying event, the period manual sampling or rising stage sampling during the next Dilution of samples is not required. Samples may be analyz properly calibrated turbidimeter. Samples are not required to be

(5). Sampling and analysis of the receiving water(s) or o minimum frequency stated in this permit must be reported to 1 Part IV.E.

c. Sampling Points.

(1). For construction activities the primary permittee must sa water(s), or all outfall(s), or a combination of receiving water Samples taken for the purpose of compliance with this representative of the monitored activity and representative of t the receiving water(s) and/or the stormwater outfalls using minimum guidelines:

> (a). The upstream sample for each receiving water immediately upstream of the confluence of the first sto from the permitted activity (i.e., the discharge farthest but downstream of any other stormwater discharges the permitted activity. Where appropriate, several upstr across the receiving water(s) may need to be taken average of the turbidity of these samples used for the value.

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*Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week

7. Non-stormwater discharges. Except for flows from fire fighting activities, sources of nonstormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

E. Reporting.

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of the certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used; g. The results of such analyses, including the bench sheets, instrument readouts, computer
- disks or tapes, etc., used to determine these results: h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
- i. Certification statement that sampling was conducted as per the Plan.

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F. Retention of Records.

1. The primary permittee shall retain the following records at the construction site of shall be readily available at a designated alternate location from commencement of o until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;

b. A copy of the Erosion, Sedimentation and Pollution Control Plan requi

c. The design professional's report of the results of the inspection co accordance with Part IV.A.5. of this permit;

d. A copy of all sampling information, results, and reports required by this p e. A copy of all inspection reports generated in accordance with Part IV.D

f. A copy of all violation summaries and violation summary reports accordance with Part III.D.2. of this permit; and g. Daily rainfall information collected in accordance with Part IV.D.4.a.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports. samp (including all calibration and maintenance records and all original strip chart rec continuous monitoring instrumentation) or other reports requested by the EPI Sedimentation and Pollution Control Plans, records of all data used to complete th Intent to be covered by this permit and all other records required by this permit shall by the permittee who either produced or used it for a period of at least three years fr that the NOT is submitted in accordance with Part VI. of this permit. These record maintained at the permittee's primary place of business or at a designated alternat once the construction activity has ceased at the permitted site. This period may be a request of the EPD at any time upon written notification to the permittee.

Part V. STANDARD PERMIT CONDITIONS

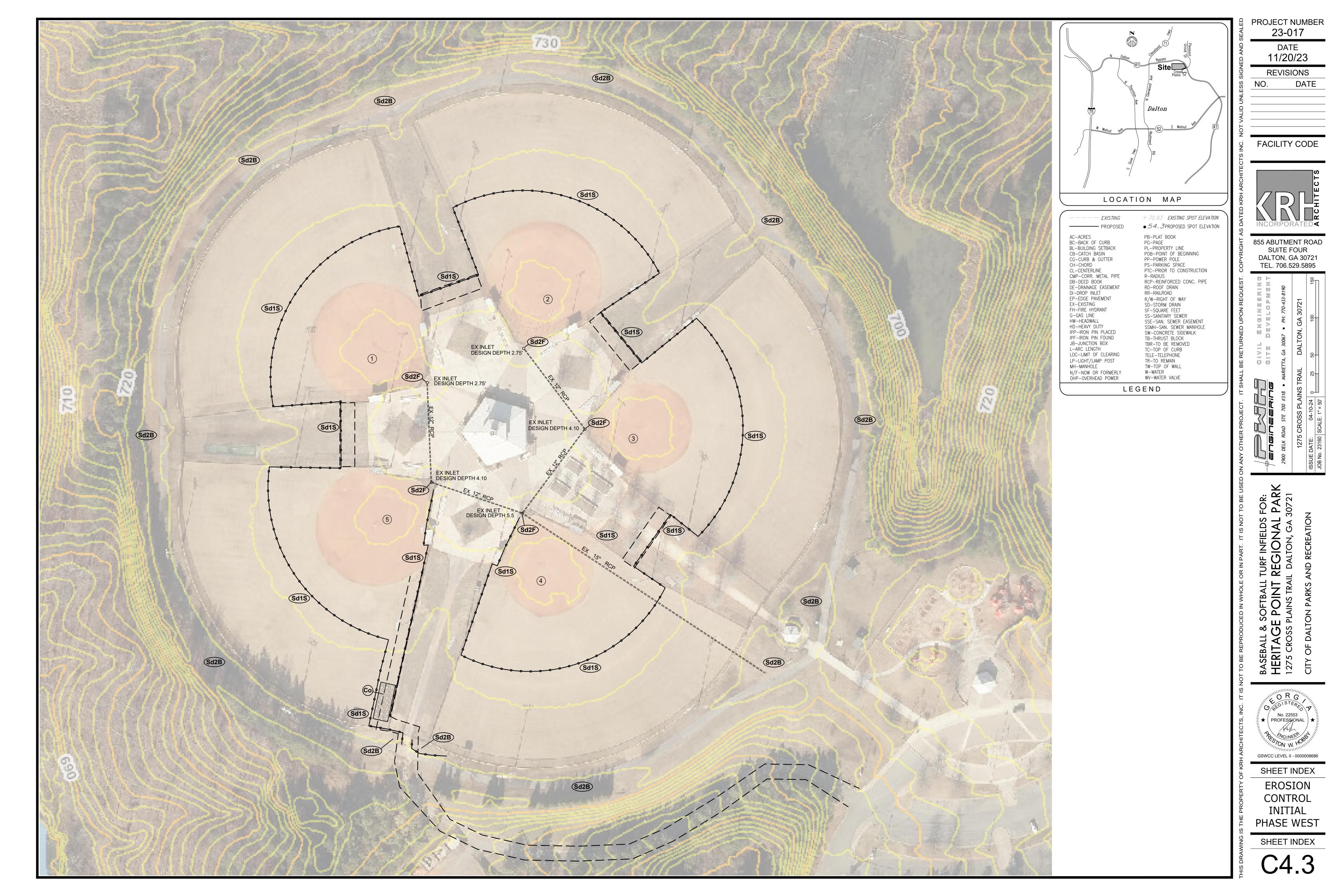
A. Duty to Comply.

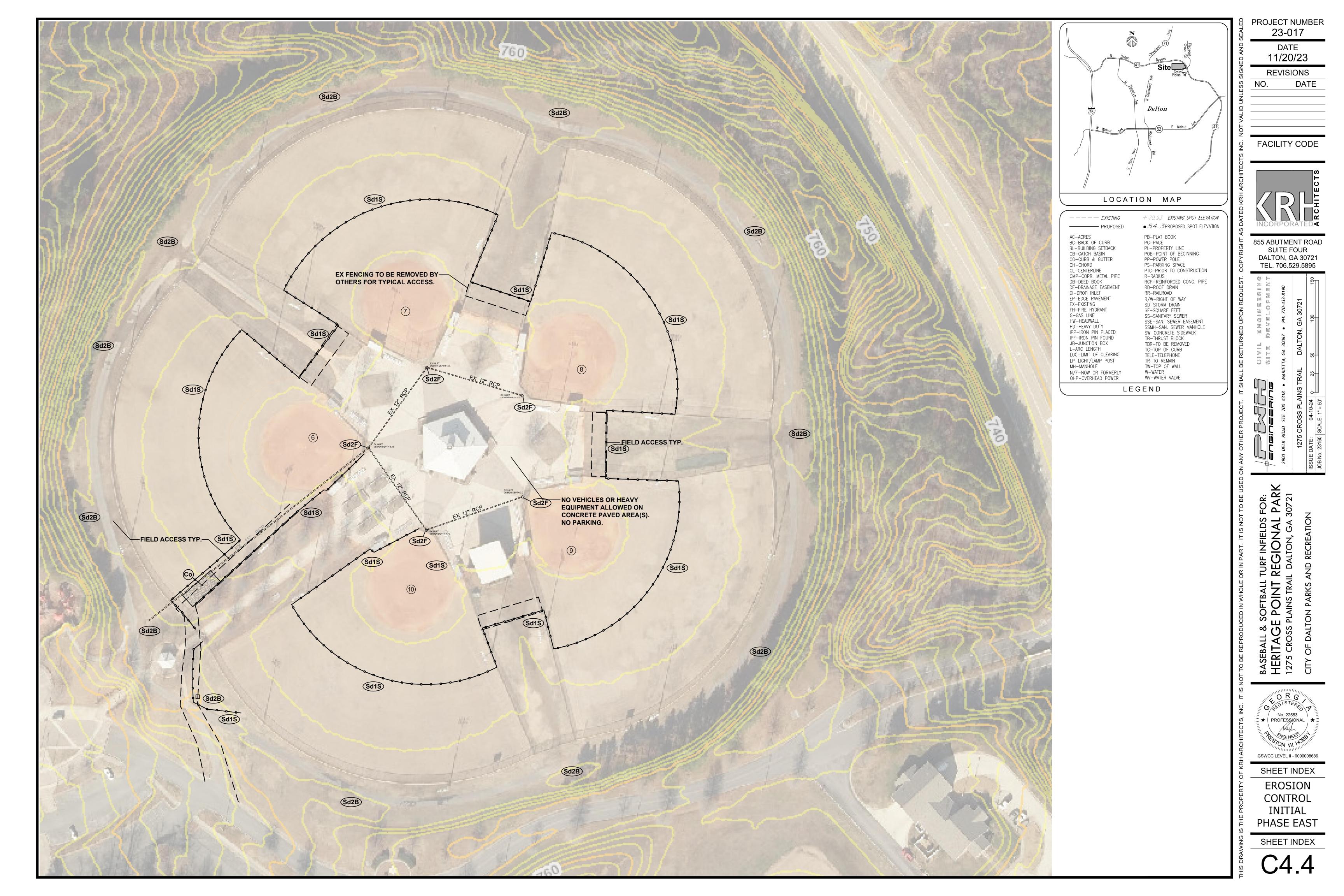
permit

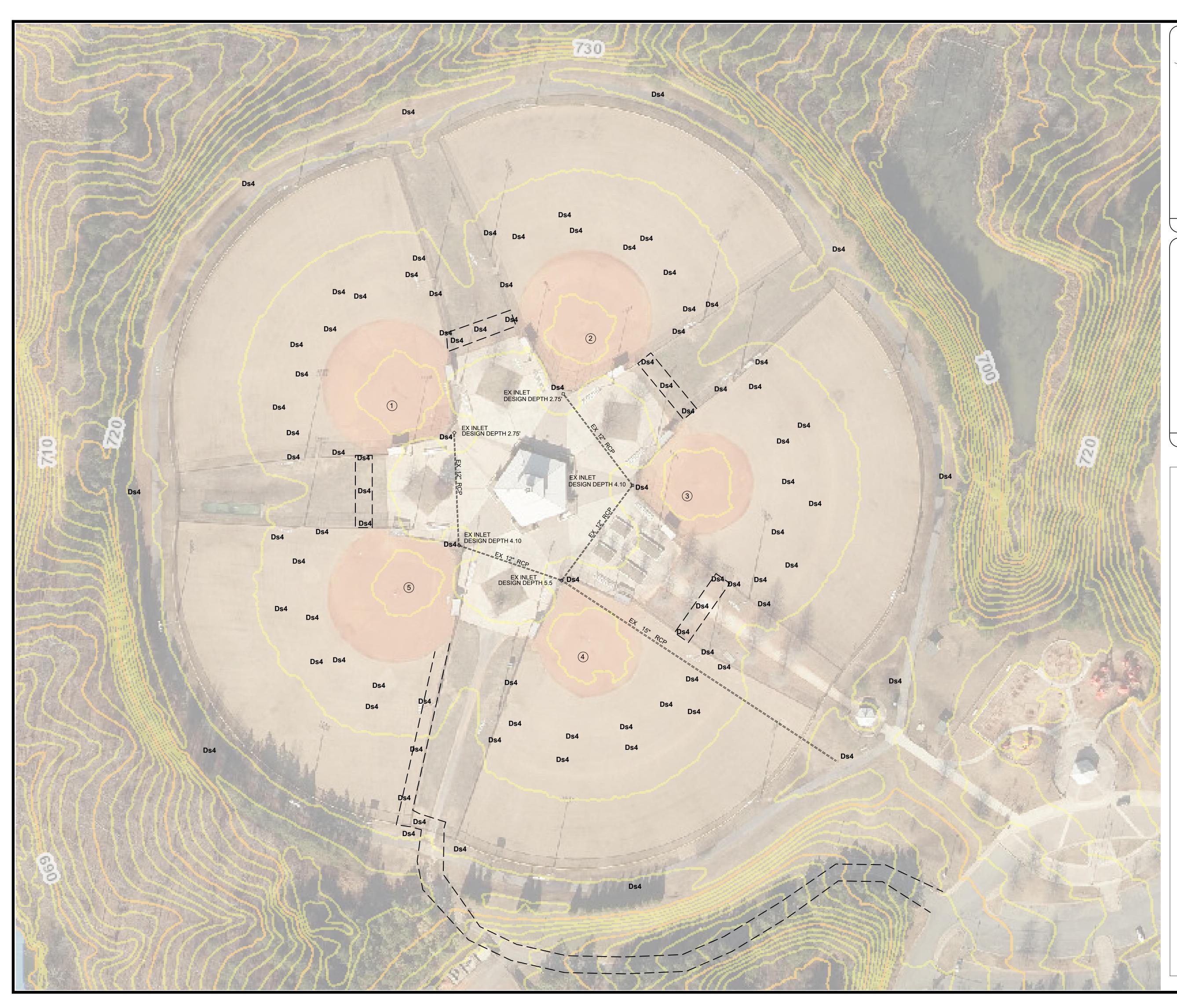
1. Each permittee must comply with all applicable conditions of this permit. noncompliance constitutes a violation of the Georgia Water Quality Control Act §§12-5-20, et seq.) and is grounds for enforcement action; for permit termination; or f a permit renewal application. Failure of a primary permittee to comply with any appl or condition of this permit shall not relieve any other primary permittee from comp their applicable terms and conditions of this permit.

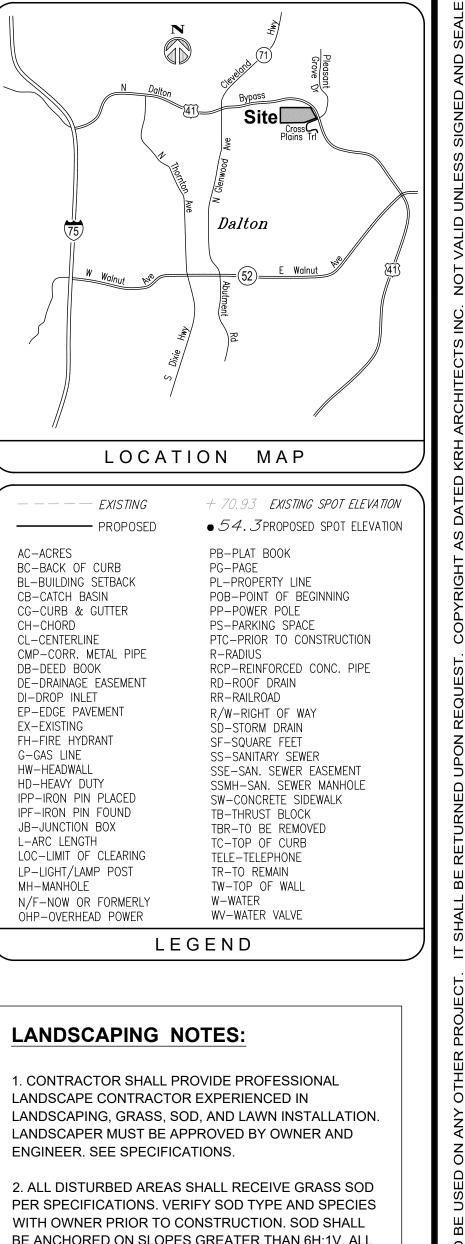
2. Each permittee must document in their records any and all known violations of the his/her site within seven (7) days of his/her knowledge of the violation. A summa violations must be submitted to EPD by the permittee at the addresses shown in Part fourteen (14) days of his/her discovery of the violation.

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Page 34 o rmit No. GAR100		State of Geor Department of Environment	of Natural					Perr	Page nit No. GA	35 of 46 R100001	SIGNED AND S		DATE /20/2	3
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Page 38 of 46 GAR100001	D	tate of Georgia epartment of N nvironmental H	Vatural Res					Permit	Page 4 t No. GAR	6 of 46 100001	IT SHALL BE		add ste 700 #318 • Marietta, CROSS PI AINS TRAII	
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WITH OWNER PRIOR TO CONSTRUCTION. SOD SHALL BE ANCHORED ON SLOPES GREATER THAN 6H:1V. ALL SLOPES SHALL HAVE MATTING AND BLANKETS (Mb) AND ANCHORED MULCH, AND PERMANENT GRASS ESTABLISHED IMMEDIATELY AFTER SLOPE IS CREATED. MATTING AND BLANKETS SHALL BE TEMPORARY TYPE MADE FROM ORGANIC MATERIAL.

3. ALL SLOPES SHALL BE TEMPORARILY STABILIZED WITH MULCH AND TEMPORARY SEEDING AS REQUIRED UNTIL FINAL STABILIZATION. CONTRACTOR SHALL ESTABLISH PERMANENT GRASS ON SLOPES AS SOON AS GRADE IS ESTABLISHED.

4. CONTRACTOR IS SOLELY RESPONSIBLE FOR PLANTING DATES FOR GRASS SPECIES SPECIFIED. CONTRACTOR SHALL SCHEDULE CONSTRUCTION, GRADING, AND GRASSING TO ACHIEVE AND ESTABLISH PERMANENT GRASS A MINIMUM OF 60 DAYS PRIOR TO FINAL RELEASE. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL GRASS/SOD PER SPECIFICATIONS.

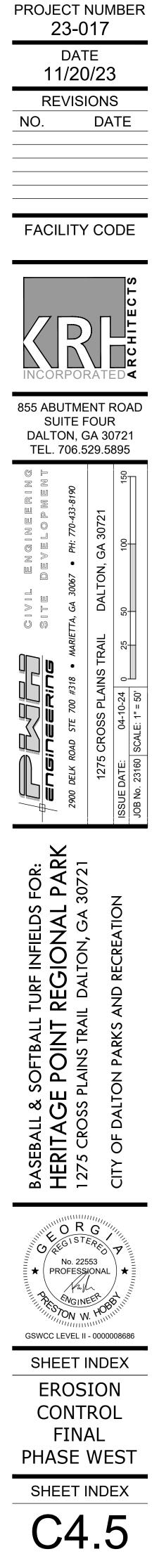
5. ALL TEMPORARY GRASS OR GRASS MIXTURES USED FOR TEMPORARY STABILIZATION SHALL BE FULLY AND COMPLETELY TILLED UNDER AND REMOVED PRIOR TO INSTALLATION OF PERMANENT GRASS. CONTRACTOR IS RESPONSIBLE FOR COMPLETE PREPARATION AND SOIL AMENDMENTS ON ALL SUCH AREAS PER SPECIFICATIONS.

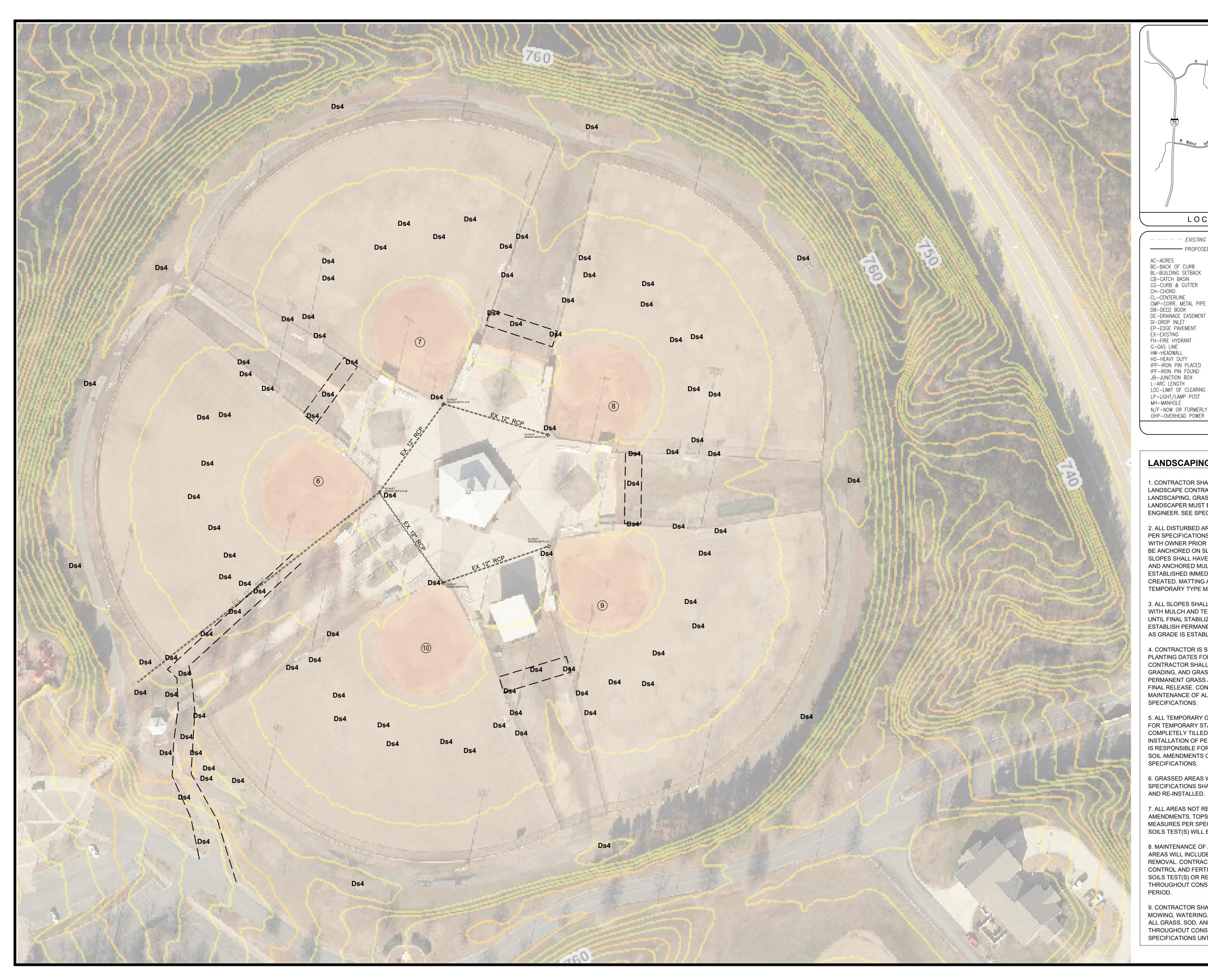
6. GRASSED AREAS WHICH DO NOT GROW OR MEET SPECIFICATIONS SHALL BE REMOVED IMMEDIATELY AND RE-INSTALLED.

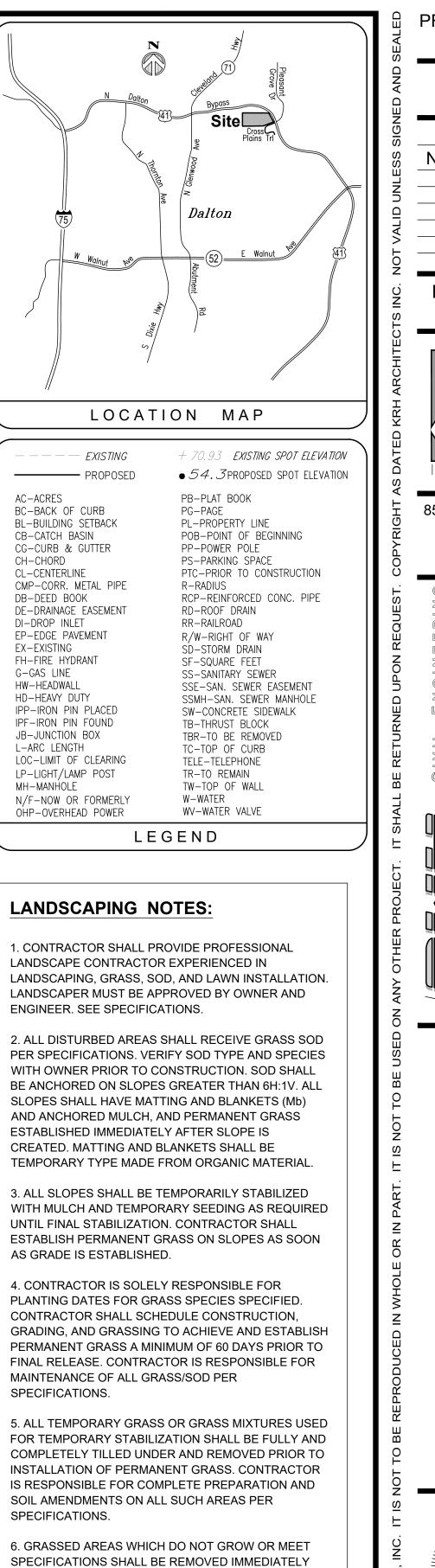
7. ALL AREAS NOT RECEIVING PREPARATION, SOIL AMENDMENTS, TOPSOIL, FERTILIZER, AND OTHER MEASURES PER SPECIFICATIONS AND REQUIRED SOILS TEST(S) WILL BE REJECTED.

8. MAINTENANCE OF ALL GRASS AND LANDSCAPED AREAS WILL INCLUDE TRIMMING, WEEDING AND WEED REMOVAL. CONTRACTOR SHALL APPLY WEED CONTROL AND FERTILIZER AS RECOMMENDED BY SOILS TEST(S) OR REFERENCED STANDARDS THROUGHOUT CONSTRUCTION AND MAINTENANCE PERIOD.

9. CONTRACTOR SHALL PROVIDE MAINTENANCE, MOWING, WATERING, WEEDING, AND PROTECTION OF ALL GRASS, SOD, AND LANDSCAPED AREAS THROUGHOUT CONSTRUCTION AND PER SPECIFICATIONS UNTIL FINAL RELEASE BY OWNER.



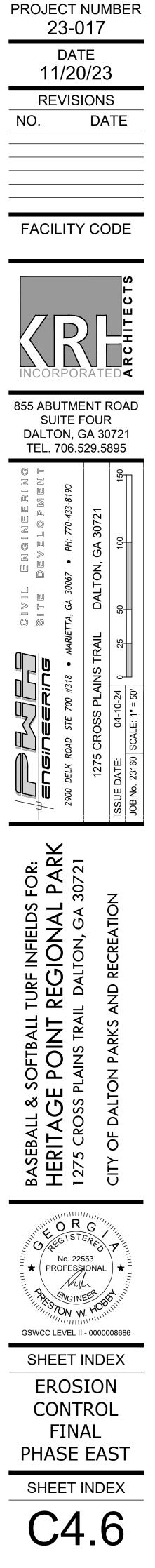




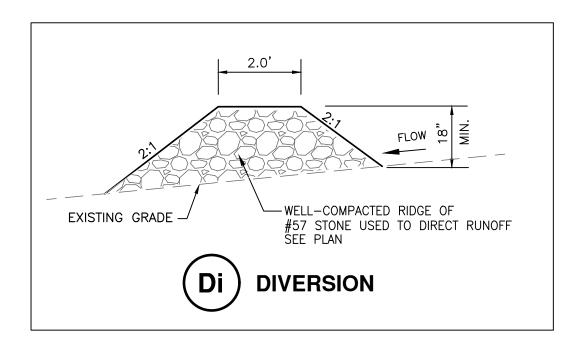
7. ALL AREAS NOT RECEIVING PREPARATION, SOIL AMENDMENTS, TOPSOIL, FERTILIZER, AND OTHER MEASURES PER SPECIFICATIONS AND REQUIRED SOILS TEST(S) WILL BE REJECTED.

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9. CONTRACTOR SHALL PROVIDE MAINTENANCE, MOWING, WATERING, WEEDING, AND PROTECTION OF ALL GRASS, SOD, AND LANDSCAPED AREAS THROUGHOUT CONSTRUCTION AND PER SPECIFICATIONS UNTIL FINAL RELEASE BY OWNER.



	Rate p	er Rate per	PLA	ANTING DATE	ES		Rate per	Rate per	PL	ANTING DATE	S
SPECIES	1000 \$	S.F. Acre	Mountain	Piedmont	Coastal	SPECIES	1000 S.F.	Acre	Mountain	Piedmont	Coasta
Bermuda, Comr	mon					RYE	3.9 LB	168 LB	8/1-12/1	9/1-1/1	10/1-3
Unhulled Seed		3 10 LB	NO	10/1-3/1	11/1-2/1	Ryegrass, Annual	1.0 LB	40 LB	8/1-5/1	8/1-4/1	9/1-4/
Bermuda, Comr	non					Millet, Browntop	1.0 lb	40 lb	4/1-6/1	4/1-7/1	4/1-7/
Hulled Seed	0.2 LE	3 10 LB	NO	3/1-8/1	2/15-8/1	Lovegrass, Weeping	0.1 lb	4.0 lb	3/1-6/1	3/1-6/1	2/1-6/
Lespedeza, Seri	cea					Lespedeza, Annual	1.0 LB	40 LB	2/1-5/1	2/1-5/1	1/1-3/
Unscarified	1.7 LE	3 75 LB	1/1-12/1	1/1-12/1	1/1-12/1	WHEAT	4.1 LB	180 LB	9/1-12/1	9/1-12/1	9/15-2
Lespedeza						Millet, Pearl	1.1 lb	50 lb	5/1-7/1	4/15-9/1	4/1-9/
Unscarified	1.7 LE	3 75 LB	1/1-12/1	1/1-12/1	1/1-12/1	BARLEY	3.3 LB	144 LB	8/15-11/15	8/15-12/15	9/1-12
Lovegrass, Wee	ping 0.1 LE	3 4.0 LB	3/15-6/15	3/1-6/15	2/1-6/15						
Fescue, Tall	1.1 LE	3 50 LB	8/1-11/1	8/15-11/1	NO						
Switchgrass	1.0 lb	40 lb	3/15-6/1	3/15-6/1	3/15-6/1						
Bahia	1.4 lb	60 lb	1/1-12/1	1/1-12/1	1/1-12/1						
		I	1						1		
	1					LIME AND FERTI					
SPECIES	YEAR	ANALYSIS OR	RATE		N RESSING RATE	1. AGRICULTURAL AGRICULTURAL LIM					
						APPLICATION.					
Cool season grasses	First Second	6-12-12 6-12-12	1500 lbs/ac 1000 lbs/ac) lbs/ac 1/2/	SOILS, FERTILIZER	IS NOT REQUIR	ED.			
	Maintenance	10-10-10	400 lbs/ac	30-100) lbs/ac	FOR SOILS OF VE	RY LOW FERTILII NT PER ACRE('	Y, USE 500 TO 2-16 LBS./100	700 POUNDS 0 00 SQ. FT.). FER	F 10–10–10 FE TILIZER SHOULD	RTILIZER BE
Cool season grasses and	First Second	6-12-12 0-10-10	1500 lbs/ac 1000 lbs/ac) lbs/ac 1/	APPLIED BEFORE					
legumes	Maintenance	0-10-10	400 lbs/ac			MULCHING:					
Ground covers	First Second	10-10-10 10-10-10	1300 lbs/ac 1300 lbs/ac			1. TEMPORARY VEC					
	Maintenance	10-10-10	1100 lbs/ac	-					BE CONSIDERED LIZATION (MULCHI		ŚM
Pine seedlings	First	20-10-5	one 21-gram per seedling pla								
			in closing hole				IRBED ARE	A STABILIZ	ATION (TEN	IPORARY S	EEDING
Shrub Lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs/ac 700 lbs/ac	A / -					ION AND SEDIME		
•	First	10-10-10	500 lbs/ac		/ao 5/				RTILIZER RATES,		
Temporary cover crops	FIISU	10-10-10									
seeded alone			1500 H (
Warm season grasses	First Second	6-12-12 6-12-12	1500 lbs/ac 800 lbs/ac) lbs/ac 2/6/) lbs/ac 2/	FOR TEMPORARY F					
	Maintenance	10-10-10	400 lbs/ac	30 lbs/		MULCHING MATERIA					
Warm season grasses and	First Second	6-12-12 0-10-10	1500 lbs/ac 1000 lbs/ac		/ac 6/	1. Dry straw or h	 ay-spread at				
legumes	Maintenance	0-10-10	400 lbs/ac			2. Wood waste, cl 9 tons per act	re.)				
LIME RATES A	ND ANALYSIS	:				3. Erosion control mating and ne					
		ion is to be establi	SHED, AGRICULTU	IRAL LIME SHAL	L BE APPLIED	4. Polyethylene fil protection.	m-secured o	ver banks or	stockpiled soi	l material for	tempora
		S OR AT THE RATE OF FICATIONS OF THE GE						0 11			
2. LIME SPREAD	BY CONVENTIO	NAL EQUIPMENT SHALL	BE CALCITIC OF	R DOLOMITIC GF	ROUND	APPLYING AND AN 1. Apply straw or			by hand or me	echanically. Ar	nchor as
		T 90% OF THE MATER PASS THROUGH A 50-			•	appropriate an with the disk s	d féasible. It	may be pres	sed into the s	soil with a dis	sk harrov
WILL PASS TH	ROUGH A 100-	-MESH SIEVE.				smooth or ser 12 inches apa	rated and sh	ould be 20 [°] ir	iches or more	in diameter	and 8 to
		SEEDING SHALL BE C AT 98% OF THE MATE				mulch but to	press it into	the soil leavi	ng much of it	in an erect	position.
		ILL PASS THROUGH A				2. Spread wood v is needed.	waste uniform	ly on slopes	that are 3:1	or flatter. No	anchorir
	COAST FLATWO	LOMITIC LIMESTONE IN DODS MLRA'S.	THE SAND HILLS	S, SUUITERN U	JUASTAL PLAIN,	3. Commercial m with the mater		tting: Follow	manufacturer's	specification	included
MULCHING RA	TES:					4. Apply asphalt traffic areas.)	so area has	uniform appe	arance (do no	t use in pede	estrian
		STEEPER THAN 3 PE				· · · · · · · · · · · · · · · · · · ·					
		AT GERMINATION CANI ON ROADBANKS.	NOT BE EXPECTED	D UNTIL SPRING	J; IN THE	TO CONSERVE MO 1. Grain straw or					
		AY OF GOOD QUALITY . F 2 TONS PER ACRE.				2. Pine needles:	4" to 6" dep	th	JUN		
2 1/2 TONS	PER ACRE; OR	,				3. Wood waste: 4 4. Shredded resid					
		SE WOOD CELLULOSE AND DRY STRAW OF				When using or the normal am	ganic mulche	s, apply 20—3			
4. USE THREE T	ONS PER ACRE	OF SERICEA LESPEDE	EZA HAY CONTAIN	ING MATURE SE	EED; OR,	the decomposi	tion of mulch	i.			i it by
5. APPLY PINE S		BARK AT A THICKNES									
IN SUFFICIENT	; OR,						JRBED ARE	A STABILIZ	ATION (MU	LCHING ON	LY)
ARE PLANTED		EROSION CONTROL NE ED IN ADDITION TO M				REFER			N AND SEDIMEN TILIZER RATES,		
ARE PLANTED 6. SOIL RETENTIO						-					
ARE PLANTED 6. SOIL RETENTION BLOCK SOD N FLOW AREAS.											
ARE PLANTED 5. SOIL RETENTION BLOCK SOD N FLOW AREAS.	STURBED	AREA STABILIZ	<u> </u>								

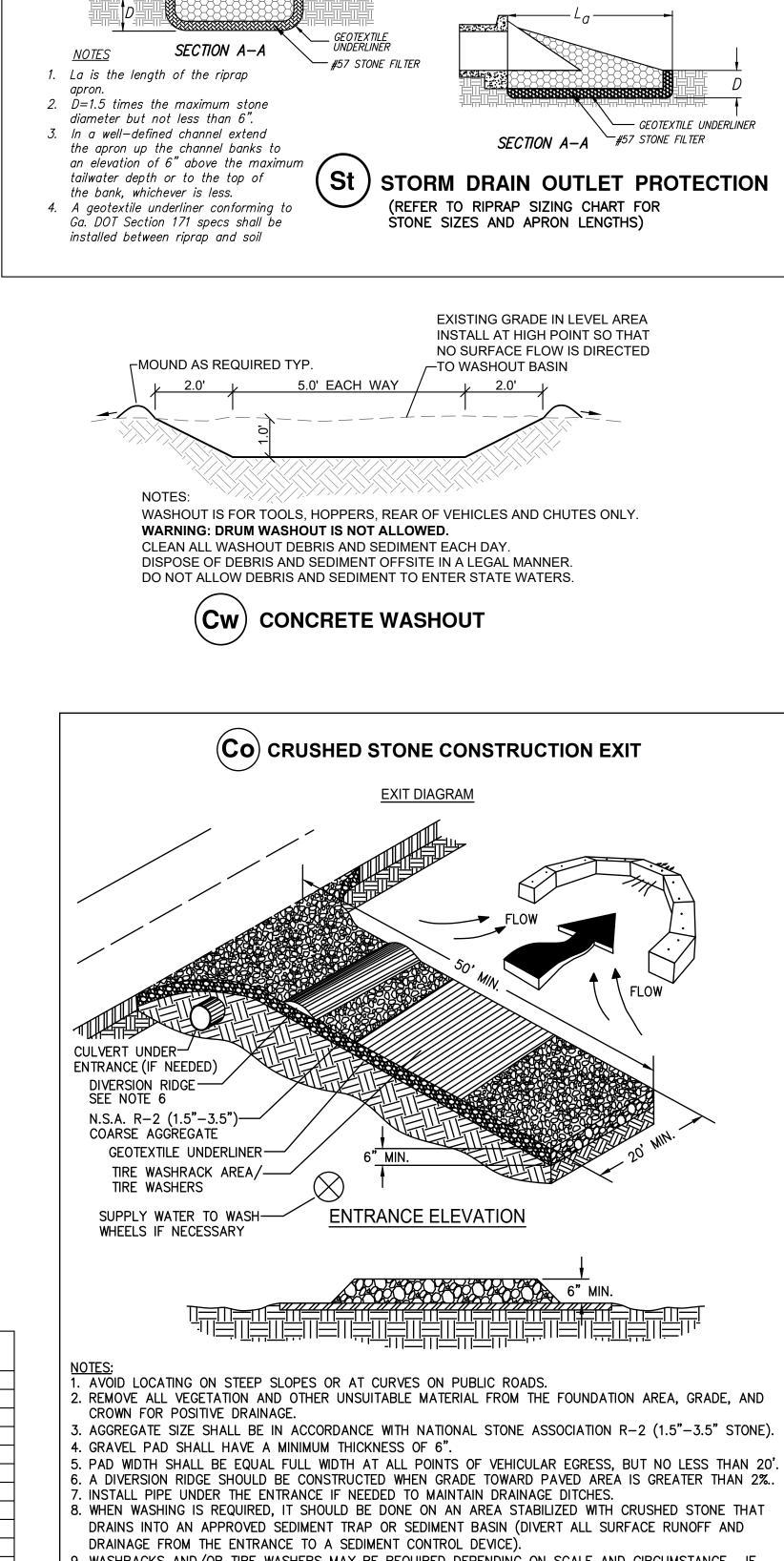


	St) RIPRAP/APRON SIZING						
STRUCTURE No.							
d (PIPE DIA.)							
Q (25 YR.)							
VEL. (25 YR.)							
d50 STONE SIZE							
MAX. STONE DIA.							
D (APRON THICKNESS)							
FILTER FABRIC							
TAILWATER CONDITION							
La (LENGTH OF APRON)							
W1 = 3 x Do (PIPE Dia.) (APRON WIDTH @ HW)							
W2 = Do + La (APRON WIDTH DOWNSTREAM)							

PIPE OUTLET TO FLAT AREA-

PLAN

NO WELL DEFINED CHANNEL



N (3d + La)

PIPE OUTLET TO WELL-DEFINED CHANNEL

PLAN

THE TOP OF BANK, WHICHEVER IS LESS.

FOR WELL DEFINED CHANNEL, EXTEND APRON ACROSS -

ONE FOOT ABOVE MAXIMUM TAILWATER DEPTH OR TO

CHANNEL BOTTOM AND UP CHANNEL BANKS TO ELEVATION

. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.

10.MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

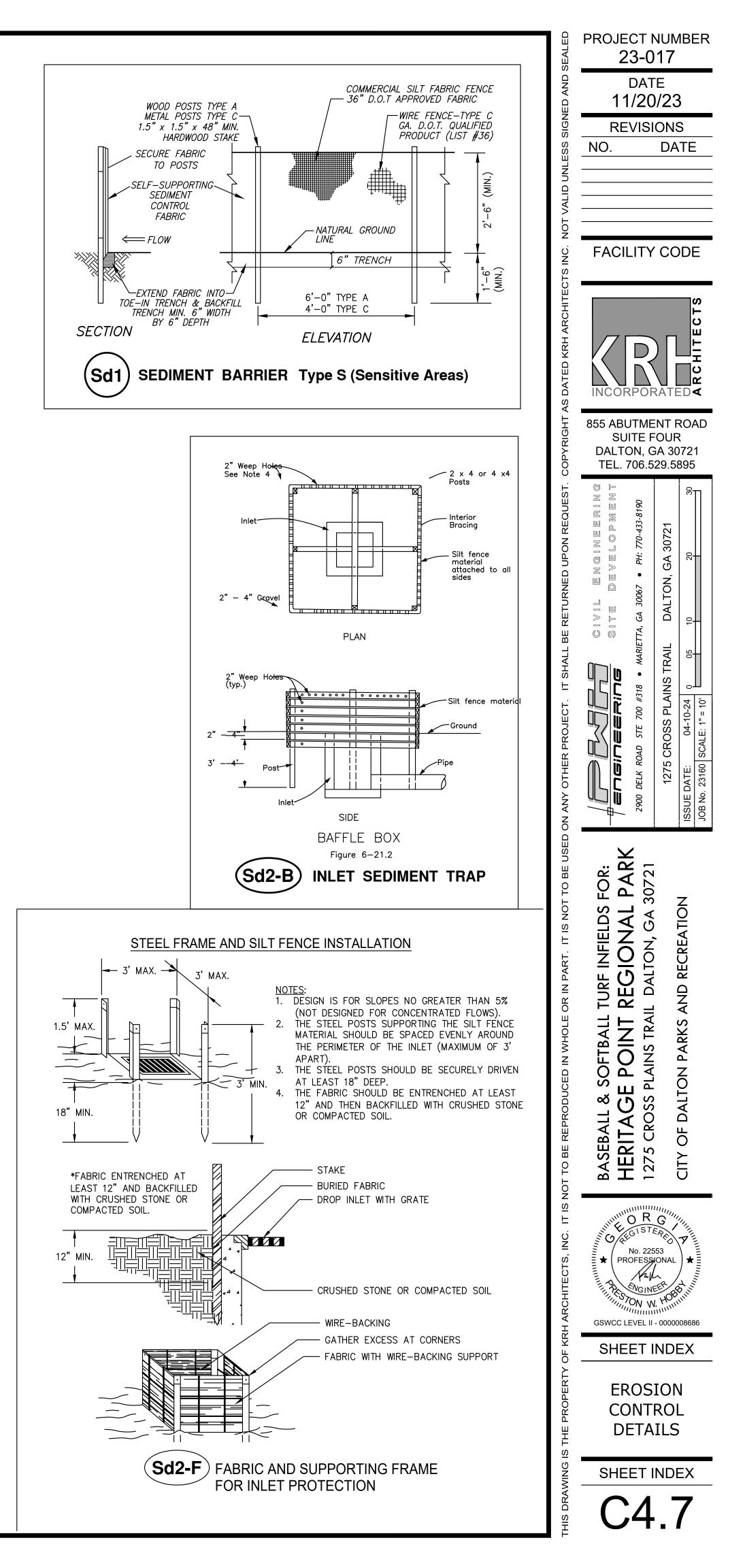


Table C-1 Graded Rip-Rap Stone

Flow Velocity (ft./sec.)	N.S.A. No. ¹	Max.	Size Inches (Sq. Opening) Avg.²	Min.	Filter Stone N.S.A. No. ¹
2.5	R-1	1 1/2	3/4	No. 8	FS-1
4.5	R-2	3	1 1/2	1	FS-1
6.5	R-3	6	3	2	FS-2
9.0	R-4	12	6	3	FS-2
11.5	R-5	18	9	5	FS-2
13.0	R-6	24	12	7	FS-3
14.5	R-7	30	15	12	FS-3
		1			1

¹ National Stone Association

² At least 50% of the individual stone particles must be equal or larger than this listed size

Table C-2. Fitter Bedding Stone

		Size Inches (Sq. opening)	
N.S.A. No ¹	Max.	Avg. ²	Min. ³
FS-1	3/8	#30 mesh	#100 mesh
FS-2	2	#4	#100 mesh
FS-3 GSWCC (Amended - 2013)	6 1/2	2 1/2	#16 C-
National Stone Association			

At least 50% of the individual stone particles must be equal or larger than this listed size

³ 85 - 100% of the individual stone particles may be less than listed size

Table C-3. Graded Rip-Rap Stone

D.O.T. No.1	Max.	ze inches (Sq. openiı Ava.	Min.	Common Uses
	ivida.	Avg.		
Туре 3	12	9	5	Creek Banks Pipe Outlets
Type 1	24	12	7	Lakes & Shorelines Rivers
Georgia Department of ransportation				

Table C-4. Filter Bedding Stone

D.O.T. No.1	Nominal Sizes (inches)	
3	<u>2</u> " - 1"	
4	1 1/2" - 3/4"	
5	1" - 1/2"	
6	3/4" - 3/8"	
57	1" - No. 4	
Georgia Department of Transportation		
001/000 (Arrested 2012)		C-:
GSWCC (Amended - 2013)		C

Table C-1 Graded Rip-Rap Stone

Dust Control on **Disturbed** Areas



Controlling surface and air movement of dust on construction sites, roads, and demolition sites. PURPOSE

from exposed soil surfaces. •To reduce the presence of airborne substances that may be harmful or

To prevent surface and air movement of dust

injurious to human health, welfare, or safety, or to animals or plant life. CONDITIONS

This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment. METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification Tae - Tackifiers. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 -Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineralso ils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency GSWCC 2016 Edition



measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hav and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

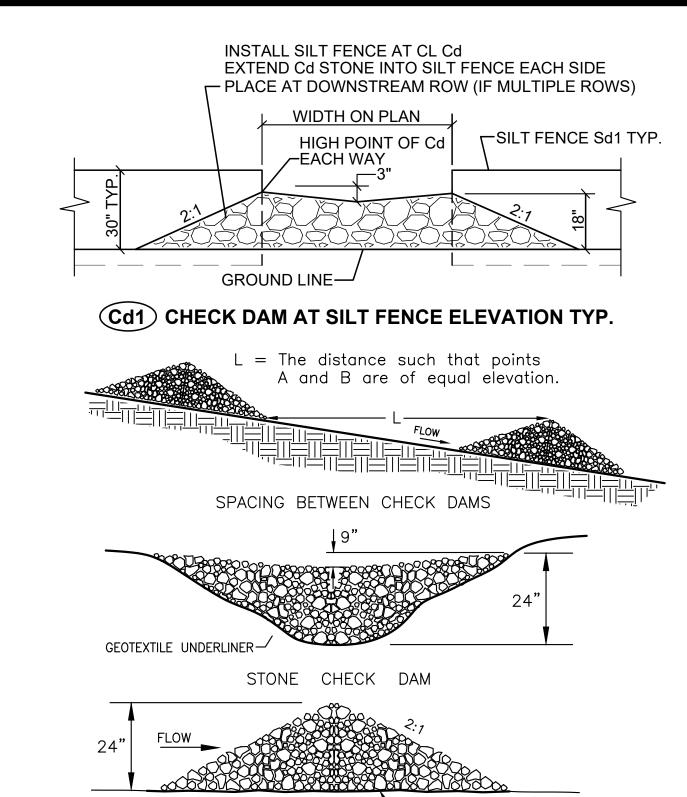
Permanent Vegetation. See specification Ds3 -Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification Tp - Topsoiling.

Stone. Cover surface with crushed stone or coarse gravel. See specification Cr-Construction Road Stabilization.

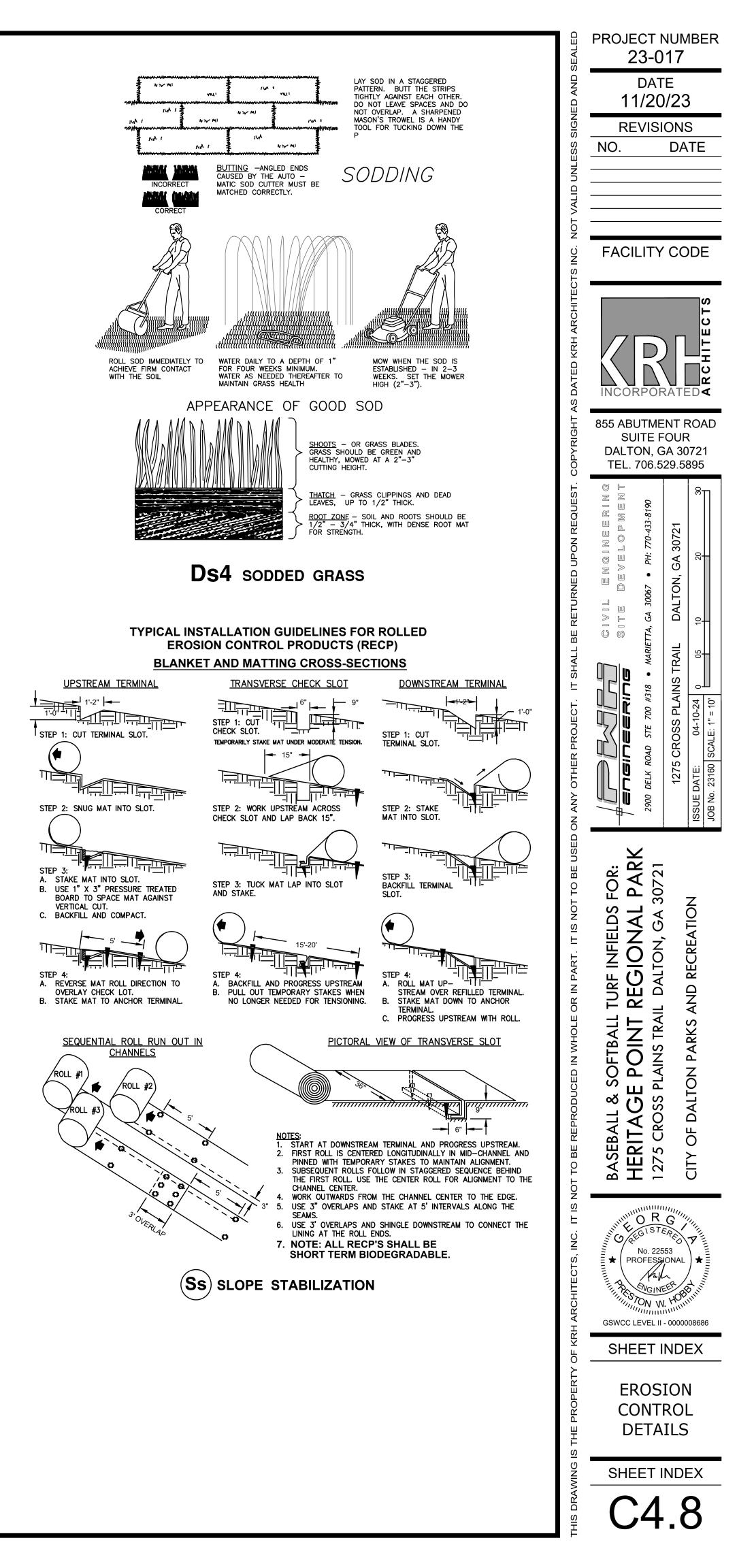
(**Du**) DUST CONTROL

6-55



GEOTEXTILE UNDERLINER 1. CFS IN THE CHANNEL / DITCH THE CHECK DAM IS BEING USED IN: 4-8 CFS 2. ABOVE 2.0 CFS: YES X NO 3. IF YES, LIST BMP'S BEING USED IN CONJUNCTION WITH CHECK DAMS: St, Sd1-S, Baffle, Di, Ds1, Ds2, Ds3





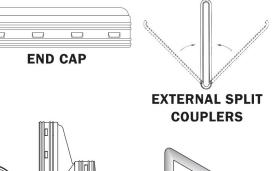
96 PANEL PIPE AdvanEdge

ADVANEDGE[®] PIPE

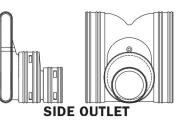
ADVA	NEDGE PIPE		
DIAMETER	LENGTH	DESCRIPTION	PRODUCT CODE
10"(200mm)	100' (30.5m)	No Fabric	04900100
12" (300mm)	100' (30.5m)	4.0 oz. Spunbond	04930100



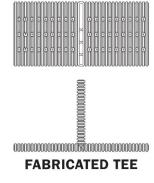
ADVANE		
PIPE SIZE	FITTING	PRODUCT CODE
12" (300mm)	Snap End Cap	1432AA
12" (300mm)	External Split Coupler	1411AA
12" (300mm)	Wye	1480AA
12" (300mm)	Coupling Pin (2/pk)	0840MB
12" (300mm)	End Outlet	1472AA
12" (300mm)	Side Outlet	1471AA
12" (300mm)	Fabricated Tee	1460AN
12" (300mm)	Fabricated Tee (Horizontal)	1460ANH
12" (300mm)	Fabricated Tee with Side Outlet	1464ANH
12" (300mm)	Fabricated Cross Tee (Horizontal)	1436ANH
12" (300mm)	Fabricated Wye	1480AN
12" (300mm)	Fabricated Wye (Horizontal)	1480ANH
12" (300mm)	Fabricated Cross Wye	1438ANH



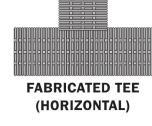


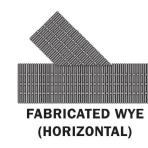




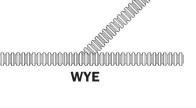


FABRICATED WYE





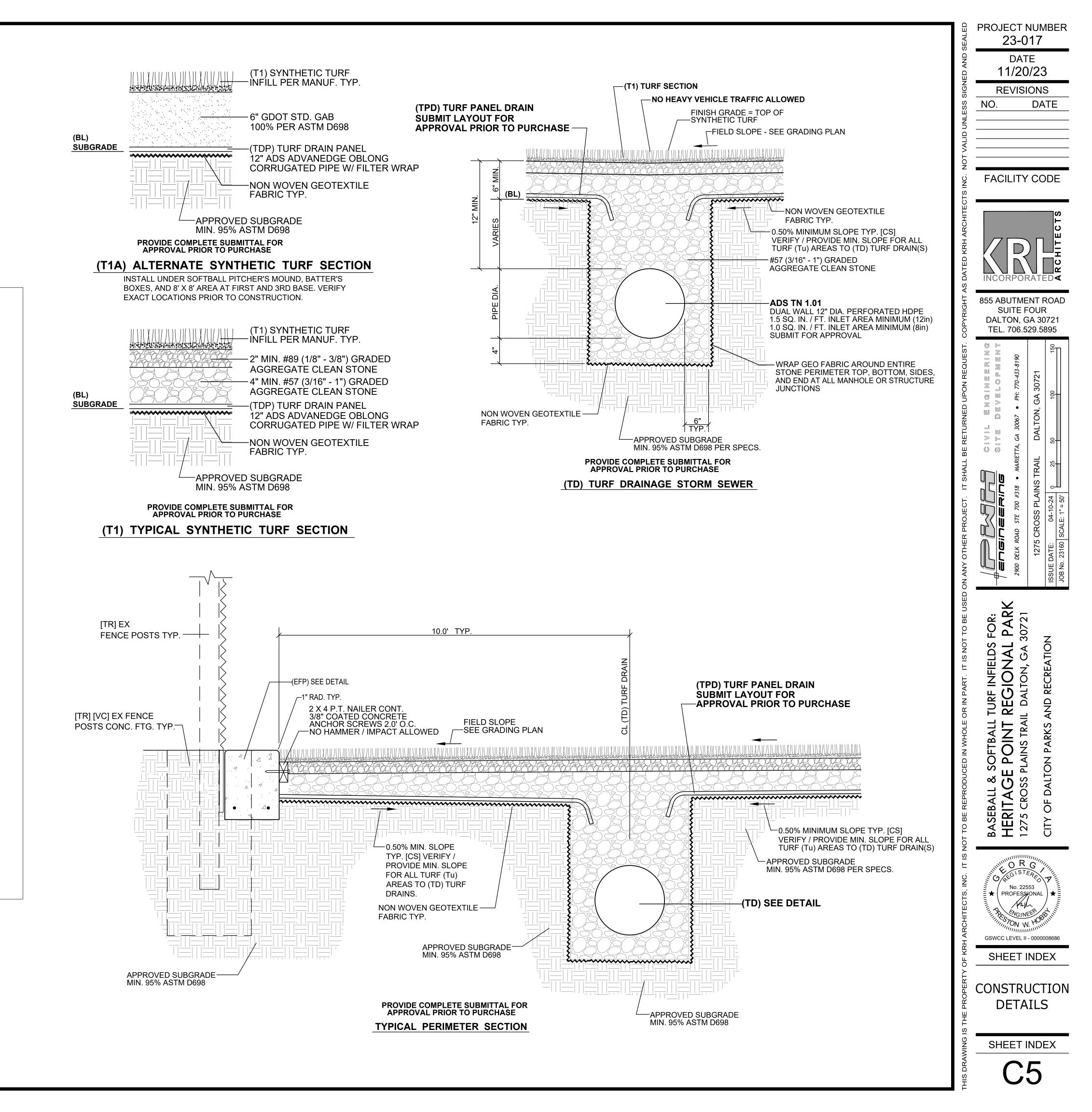


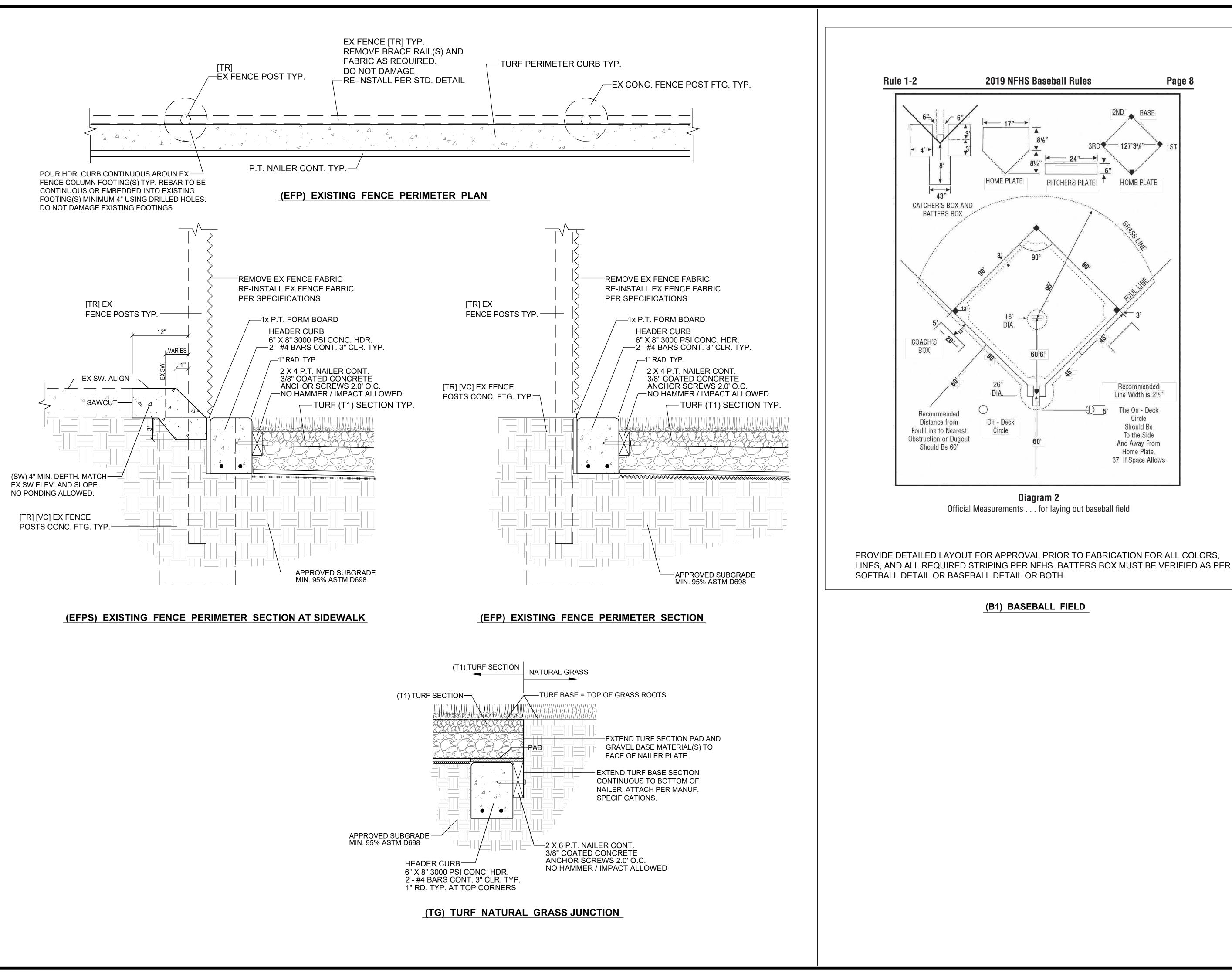


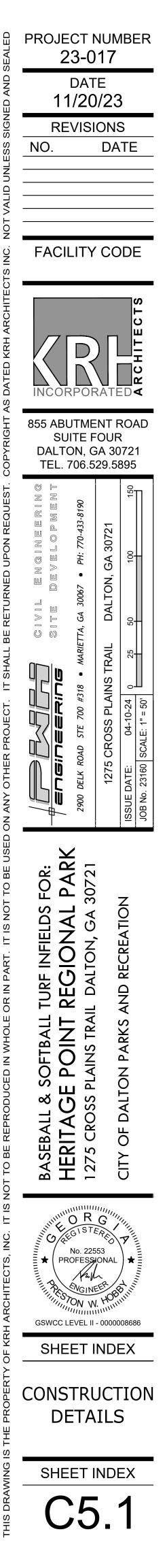


PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASE (TPD) ADVANEDGE DRAIN PIPE

FABRICATED CROSS WYE FABRI







SPORT SPECI	SFIELD ALTIES Atsfield.com	Excellence 41155 State Highway 10, F
United States Patent #8,33	37,340, Issued December 25, 2	
	J	
1" max	<u>1 </u>	Sp th
* No gr * Durat * Officia	ned specifically for synthe ound anchor installation is ble all rubber mesh reinford al size - (1) double first bas	necessary ced construction
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