INDEX OF SHEETS SHEET DESCRIPTION NO. TITLE SHEET GEOMETRY SHEET PLAN AND PROFILE SHEET LANDSCAPE PLAN DETAIL SHEET EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL NOTES CROSS - SECTIONS

EX. TREES

EXIST. MAJOR CONTOUR

EXIST, MINOR CONTOUR

PROP. MAJOR CONTOUR

PROP. MINOR CONTOUR

EXIST. PROPERTY LINE

ORANGE SAFETY FENCE

TEMPORARY PUMPING STATION

LIMIT OF DISTURBANCE

SOILS BOUNDARY

SAVE TREE

REMOVE TREE

TRY TO SAVE TREE

LIVE STAKE ZONE

0%-14.99% SLOPES

15.0%-24.99% SLOPE

EXISTING FLOODPLAIN

PROPOSED FLOODPLAIN

EX. UNDERGROUND TELEPHONE

>25.0% SLOPES

EX. WATER LINE

EX. SEWER LINE

EX. STORM DRAIN

----- OHE ---- EX. OVERHEAD ELECTRIC

BGE EX. GAS LINE

--- COMCAST--- EX. UNDERGROUND CABLE TV

IMBRICATED STONE TOE

→× →× SILT DIVERSION FENCE

<u>LEGEND</u>

SITE DEVELOPMENT PLAN

STREAM RESTORATION HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT D-1126

SPECIAL CONTRACTOR NOTES

- 100-YEAR FLOODPLAIN ELEVATION IS SHOWN ON THE PLANS.
- NO STOCKPILE OF ANY MATERIAL IS ALLOWED IN THE 100-YEAR FLOODPLAIN. IN-STREAM WORK IS PROHIBITED FROM MARCH 1ST TO JUNE 15TH, INCLUSIVE. STREAM CLASSIFICATION: USE I-P.
- CONTRACTOR SHALL CONTINUALLY MONITOR WEATHER FORECASTS DURING
- WORK ACTIVITIES AND SCHEDULE WORK DURING FAVORABLE CONDITIONS. THE CONTRACTOR SHALL EXERCISE CARE IN ACTIVITIES INVOLVING EITHER CUT AND FILL OR GRADING IN THE VICINITY OF TREES THAT ARE TO REMAIN AT THE CONSTRUCTION SITE. ALL EARTH CUTS AND ACTIVITIES IN THE VICINITY OF TREES TO REMAIN SHALL BE MADE IN A MANNER THAT DOES NOT DISTURB THE CRITICAL ROOT ZONE WITHIN THE DRIPLINE OF THE TREE, PROTECTIVE ORANGE FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION. THE LOCATION OF THE PROTECTIVE ORANGE FENCING SHALL BE APPROVED BY HOWARD COUNTY
- DEPARTMENT OF RECREATION AND PARKS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOT STORE EQUIPMENT, MATERIALS AND/OR SUPPLIES BEYOND THE ORANGE FENCING SHOWN ON THE PLANS.
- UPON COMPLETION OF THE WORK, BUT PRIOR TO DE-MOBILIZATION, THE CONTRACTOR SHALL REMOVE ALL REMNANTS OF CONSTRUCTION MATERIALS FROM THE SITE. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, A VIDEOTAPE AND PHOTOGRAPHS OF THE CHANNEL FROM THE PROPOSED UPSTREAM LIMIT OF WORK TO THE EXISTING FOOTBRIDGE SHALL BE TAKEN BY THE CONTRACTOR. THE PHOTOGRAPHS AND VIDEOTAPE SHALL ALSO INCLUDE THE PROPOSED CONSTRUCTION ACCESS ROUTE AND MATERIAL STORAGE AREAS. THE CONTRACTOR SHALL ALSO TAKE PHOTOGRAPHS AND VIDEOTAPE OF THE SAME AREA UPON COMPLETION OF CONSTRUCTION AND STABILIZATION. THE VIDEOTAPE AND
- PHOTOGRAPHS SHALL BE TURNED OVER TO THE COUNTY PROJECT MANAGER. ALL TREES TO BE REMOVED SHALL BE CUT AT THE BASE WITH A SAW AND NOT PUSHED OVER. TREE STUMPS MAY BE LEFT IN PLACE.
- 10. ANY PORTION OF TREES THAT ARE REMOVED SHALL BE REMOVED FROM THE SITE. 11. IN AREAS WHERE CONSTRUCTION TRAFFIC MUST DRIVE WITHIN THE CRITICAL ROOT ZONE OF A TREE TO REMAIN, THE CONTRACTOR SHALL PLACE WOOD MATS TO DISTRIBUTE THE LOAD OF THE CONSTRUCTION VEHICLES.
- 12. THE EXISTING RIP RAP IN THE CHANNEL SHALL BE RE-USED TO THE EXTENT PRACTICAL AS DIRECTED BY THE ENGINEER TO MEET THE STONE SPECIFIED FOR THE RELOCATED CHANNEL.
- 13. THERE MAY BE SEVERAL LOCATIONS WHERE CONSTRUCTION VEHICLES MUST SQUEEZE BETWEEN TWO EXISTING TREES TO REMAIN. HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS SHALL BE NOTIFIED AND SHALL
- DETERMINE THE EXACT COURSE OF ACTION TO BE FOLLOWED. PRIOR TO BEGINNING ANY CONSTRUCTION, CONTRACTOR SHALL ARRANGE FOR HOUSE INSPECTIONS/PHOTOGRAPHS TO DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION. HOWARD COUNTY PROJECT MANAGER WILL MAKE INITIAL CONTACT WITH AFFECTED HOMEOWNERS TO DISCUSS THE NEED FOR THE INSPECTIONS. INSPECTION SHALL INCLUDE INSIDE AND OUTSIDE OF HOUSES.

LOT/PARCEL •	STREET ADDRESS
73/399	12009 YELLOWBELL LANE

PERMIT INFORMATION CHART APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING SECTION 3, AREA 7 VILLAGE OF HICKORY RIDGE PLAT or L/F GRID . 4718/41 WATER CODE HOWARD COUNTY, MARYLAND

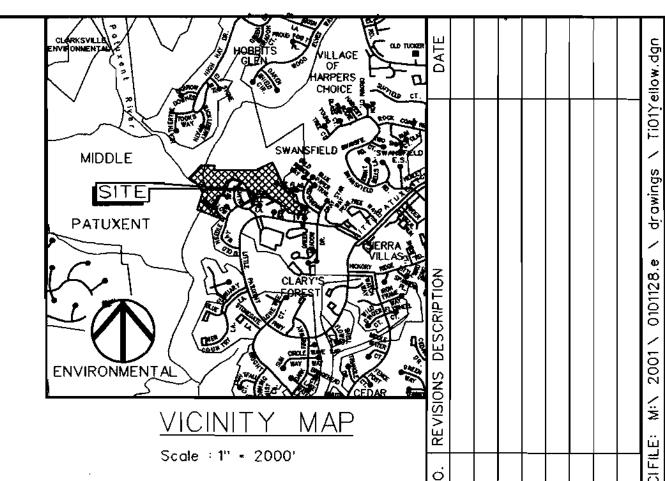
DEPARTMENT OF RECREATION AND PARKS 10 North Park Drive HUNT VALLEY, MD 21030 PHONE: (410) 316-7800 Fax: (410) 316-7817 www.kci.com

BENCHMARK DATA

PROPERTY BAR W/CAP N 502585.174 E 828180.763

TRAV YB-2 PROPERTY BAR W/CAP N 502628.367 E 828070.985

TBM 2 H-CUT ON RIM OF SS MH ELEV.=357.21



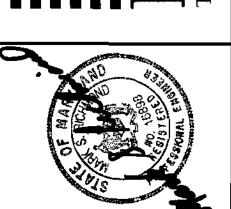
GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED NT PER THE 10/18/93 COMPREHENSIVE
- 2. THE DEPARTMENT OF PLANNING AND ZONING HAS DETERMINED THAT THE DISTURBANCE WITHIN THE FLOODPLAIN, STREAM, AND WETLANDS IS ESSENTIAL IN ORDER TO CONSTRUCT THIS PROJECT
- 3. THIS PLAN IS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- 4. THERE ARE NO BURIAL GROUNDS OR CEMETERY SITES LOCATED ON THE PROJECT SITE.
- 5. REFERENCE NUMBERS OF OTHER APPROVED PLANS: SDP 86-28c and F 85-06, VILLAGE OF HICKORY RIDGE, SECTION 3, AREA 7.
- 6. THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE THE SITE IS PART OF A PLANNED UNIT DEVELOPMENT WHICH HAS PRELIMINARY DEVELOPMENT PLAN APPROVAL BEFORE 12/31/92.
- 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 9. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 10. TRAFFIC CONTROL SHALL BE PROVIDED DURING CONSTRUCTION. HOWARD COUNTY STANDARD DETAIL TE-11 SHALL APPLY.
- 11. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 12. THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY HOWARD COUNTY SURVEY DIVISION.
- 13. WATER IS PUBLIC.
- 14. SEWER IS PUBLIC. STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT SINCE THE PROJECT WILL NOT ADD IMPERVIOUS AREA NOR WILL IT CHANGE THE EXISTING HYDROLOGY OF THE SITE.
- 16. EXISTING UTILITIES ARE BASED ON FIELD SURVEYS AND AVAILABLE RECORD
- 17. THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY KCI TECHNOLOGIES, INC., DATED AUGUST 2003 AND WAS APPROVED IN
- JANUARY, 2004. 18. THE WETLANDS DELINEATION FOR THIS PROJECT WAS PERFORMED BY KCI TECHNOLOGIES, INC. IN SEPTEMBER 2002.
- 19. TOPOGRAPHIC SURVEY OF THE SITE WAS PERFORMED BY AB CONSULTANTS, INC. IN OCTOBER 2002.
- 20. A JOINT PERMIT APPLICATION HAS BEEN SUBMITTED TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR THIS PROJECT. (TRACKING NUMBER
- 21. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- 22. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND KCITECHNOLOGIES, INC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
- 23. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION, SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- 24. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY.
- 25. EXISTING MACADAM PATHWAY DISTURBED BY THE PROPOSED WORK SHALL BE RECONSTRUCTED AS PER THE DETAIL SHOWN HEREON.
- 26. THE PROPOSED PROJECT IS LOCATED BEHIND 12019 YELLOWBELL LANE.

SITE ANALYSIS DATA CHART

- TOTAL PROJECT AREA: 29.35 ACRES (1,278,486 SF).
- DISTURBED AREA: 0.38 ACRES (16.550 SF).
- PRESENT ZONING DESIGNATION: NT SITE IS LOCATED IN MIDDLE PATUXENT ENVIRONMENTAL AREA.
- PROPOSED USE FOR THE SITE: STABILIZE EXISTING BANK/CHANNEL EROSION.
- OPEN SPACE ON SITE: 29.35 ACRES AND 100% OF GROSS AREA. APPLICABLE DPZ FILE REFERENCES: SDP 86-28c and F 85-06 VILLAGE OF

HICKORY RIDGE, SECTION 3, AREA 7.

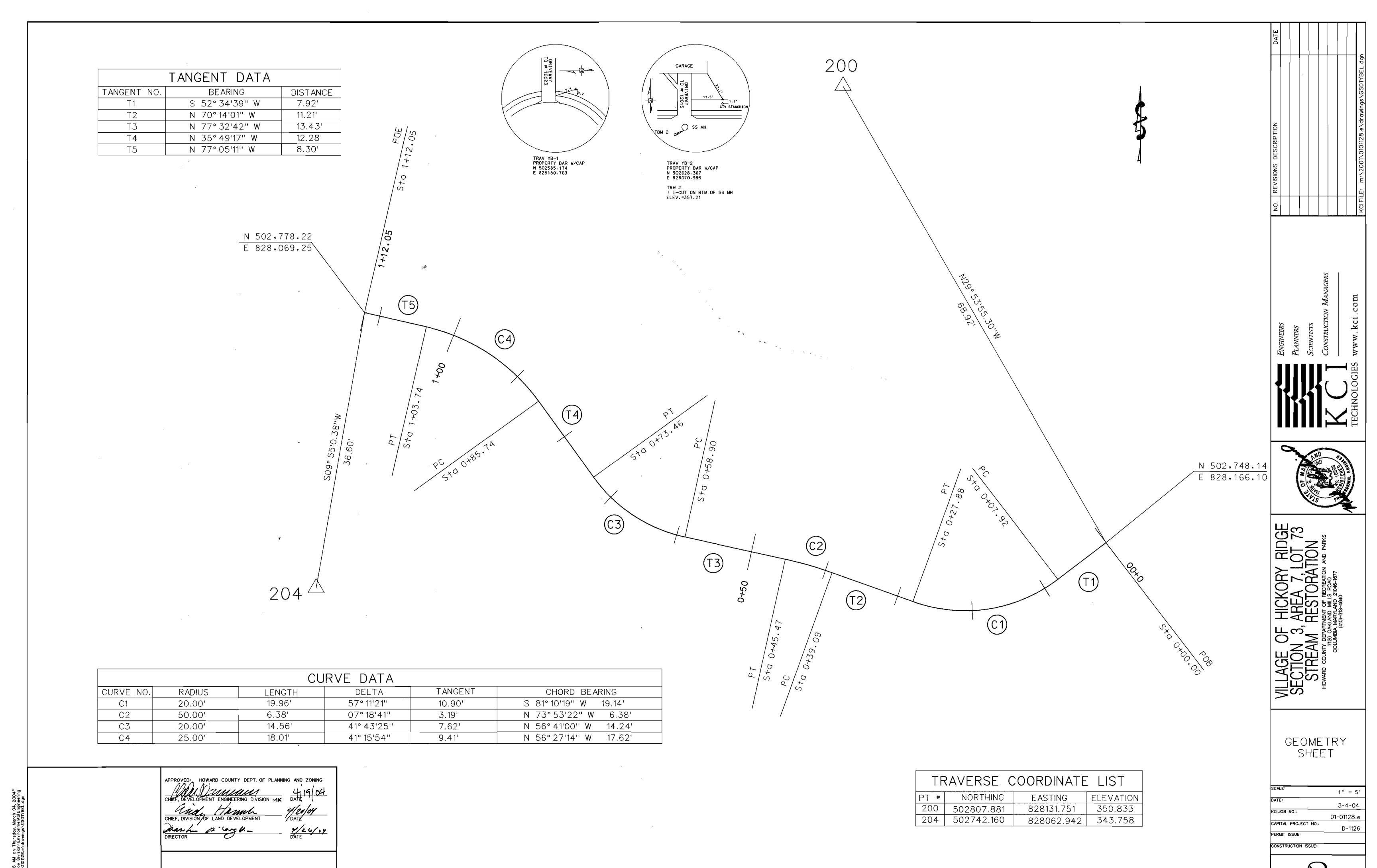


0 AGE STEEL

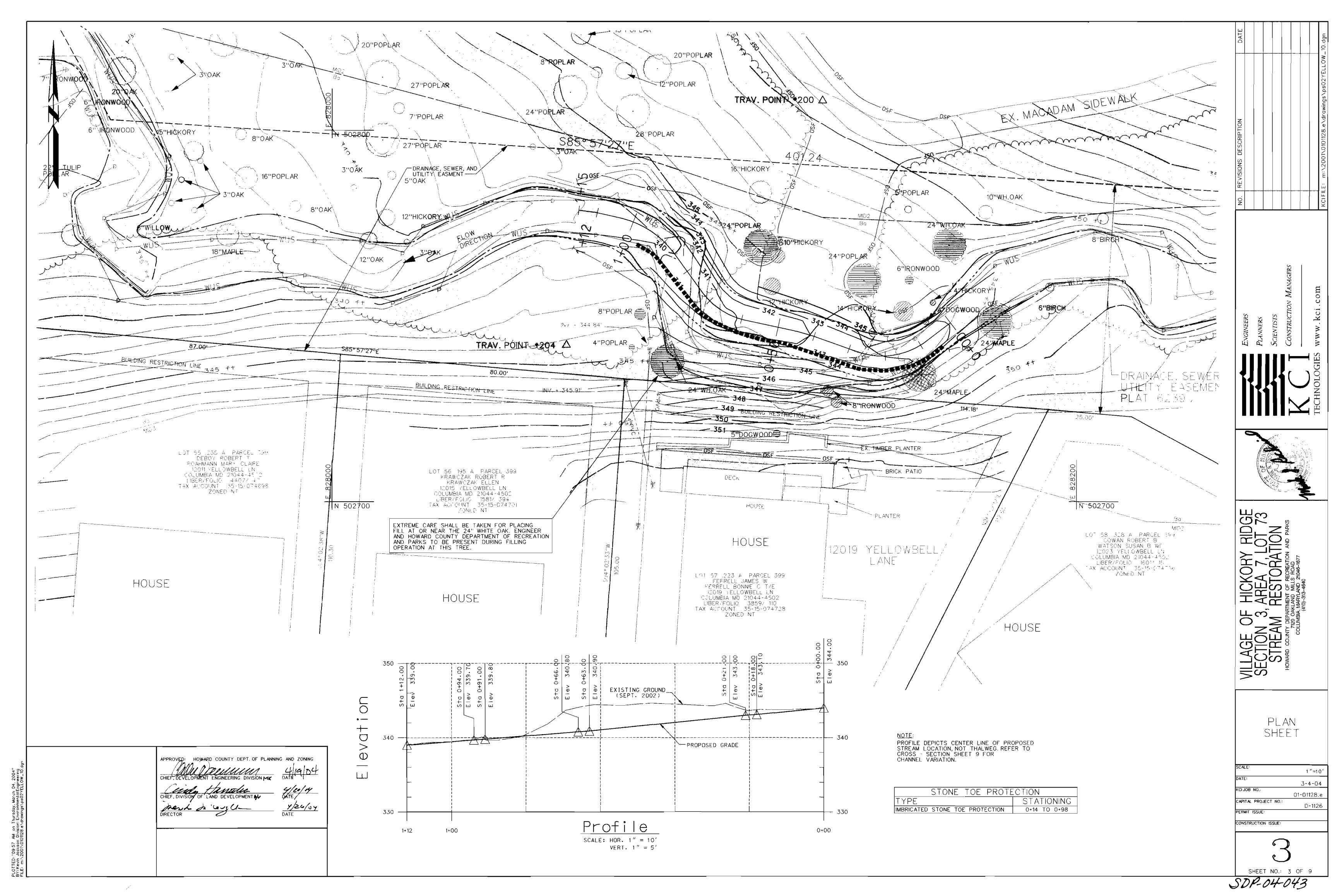
> TITLE SHEE 7

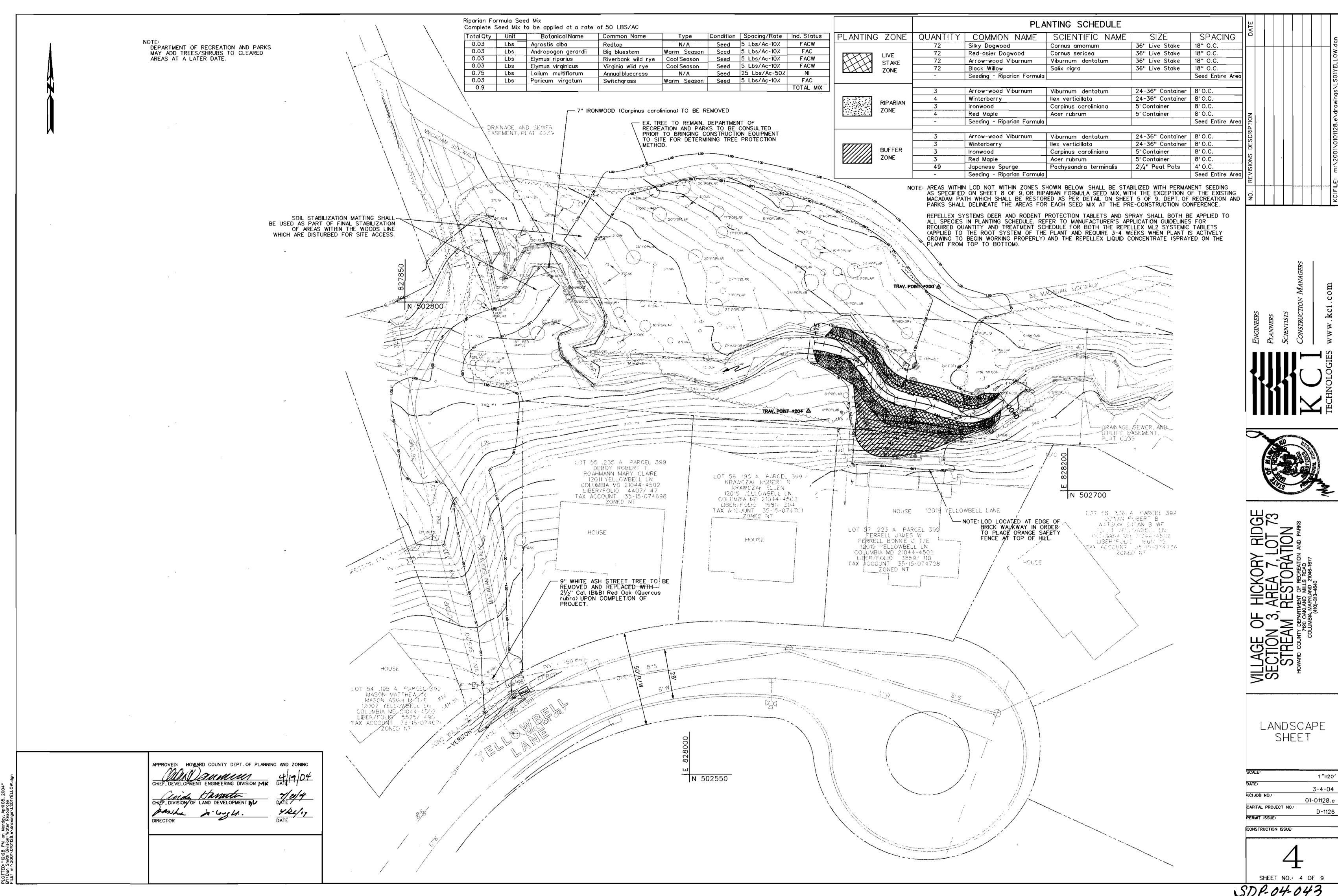
AS SHOWN 3-4-04 01-01128.e CAPITAL PROJECT NO.: PERMIT ISSUE: CONSTRUCTION ISSUE:

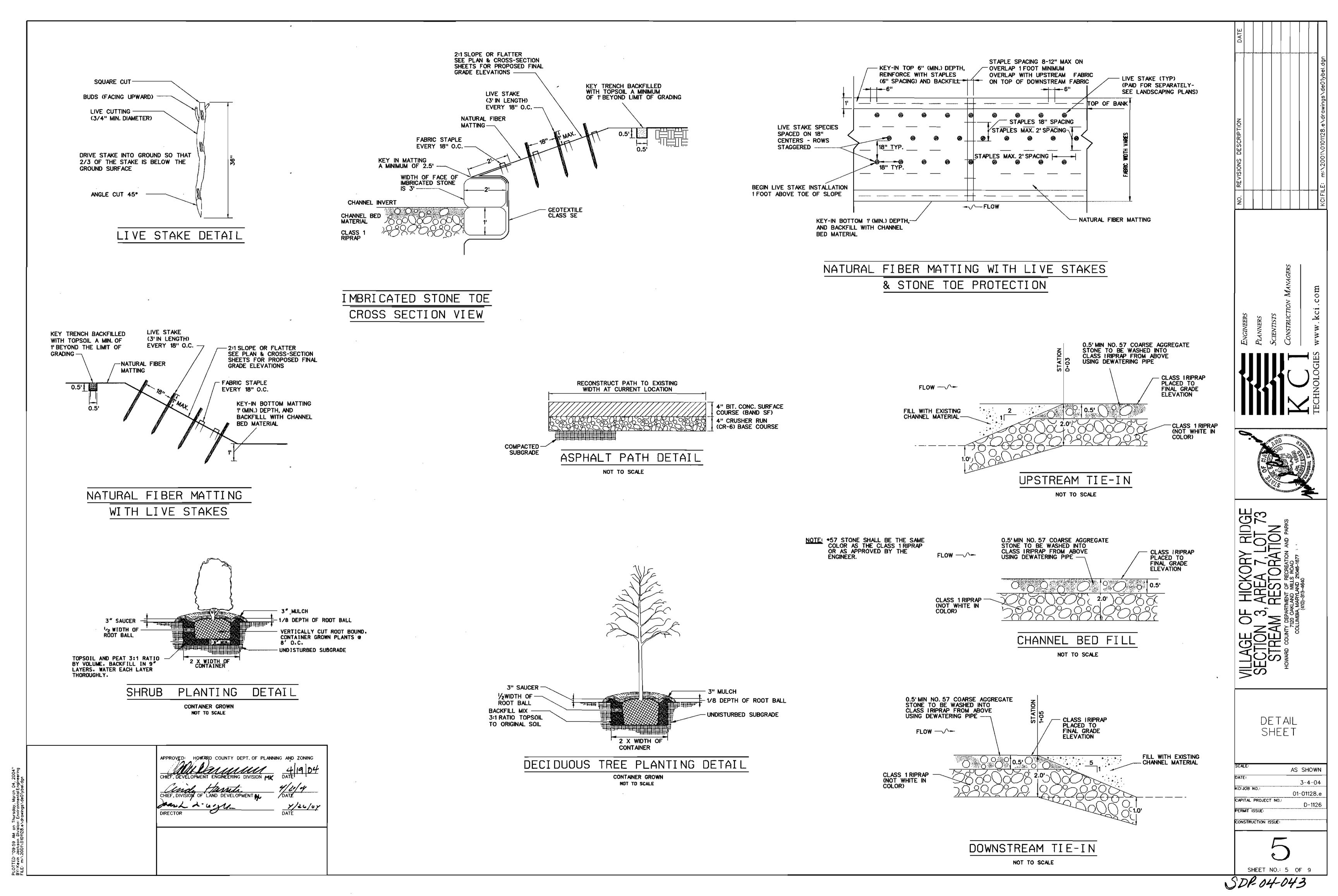
SHEET NO.: 1 OF 9

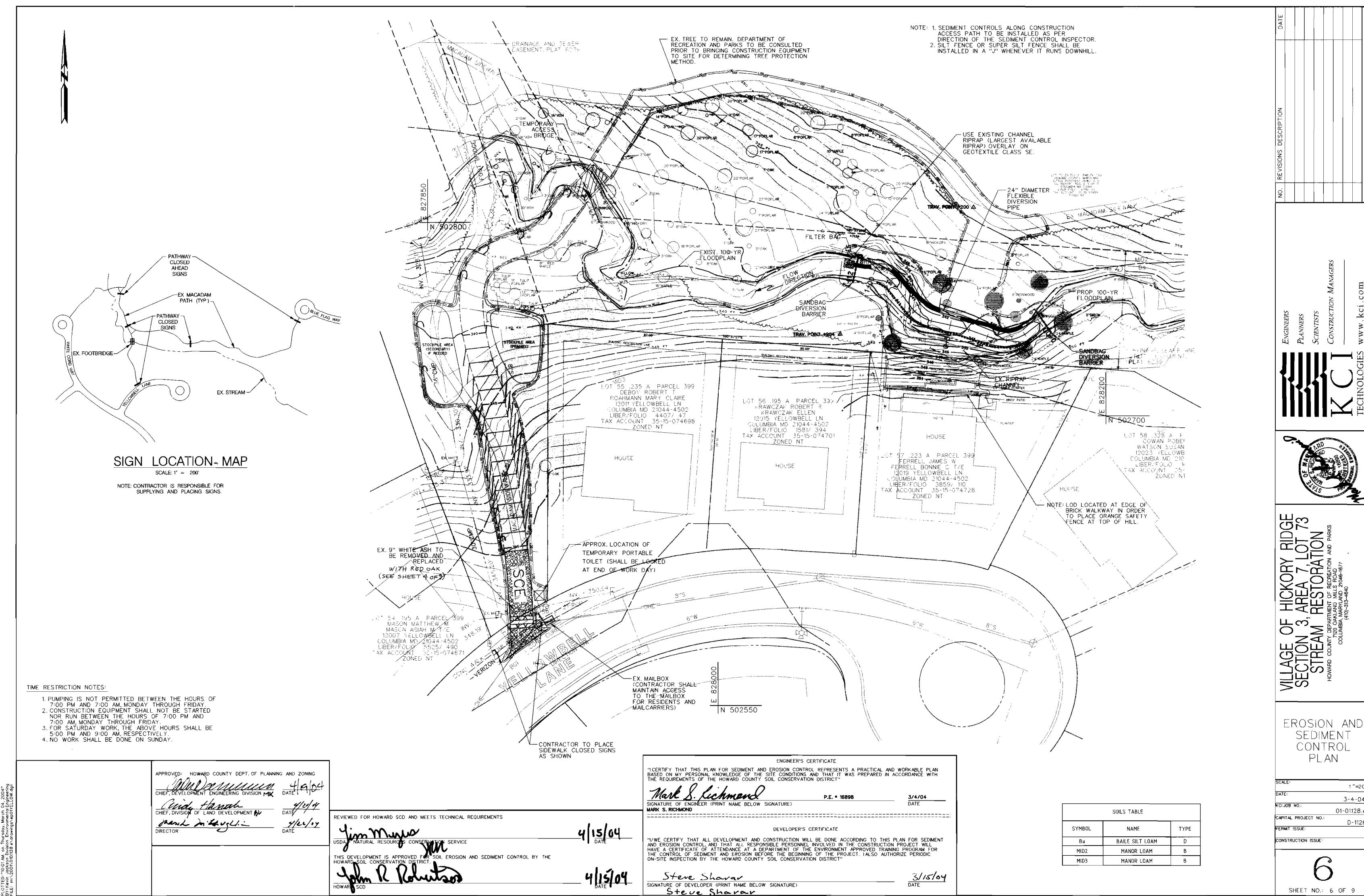


SDP-04-043





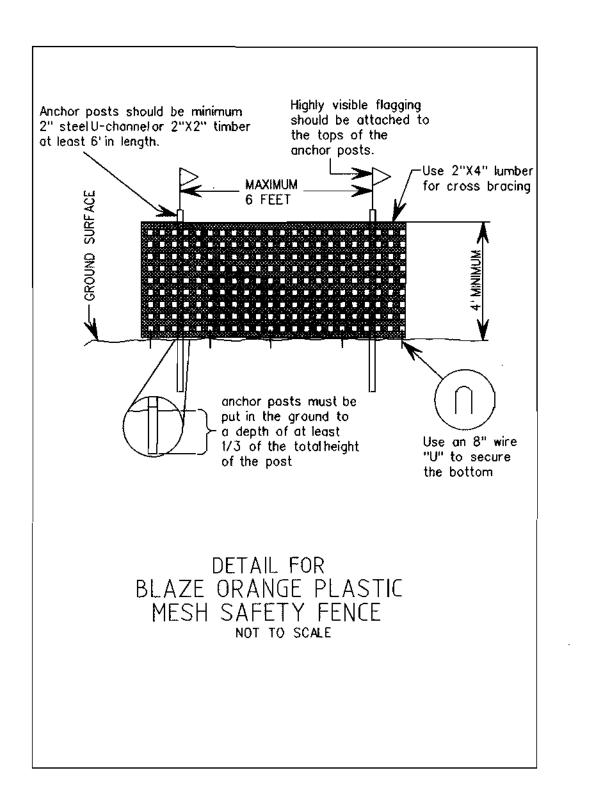


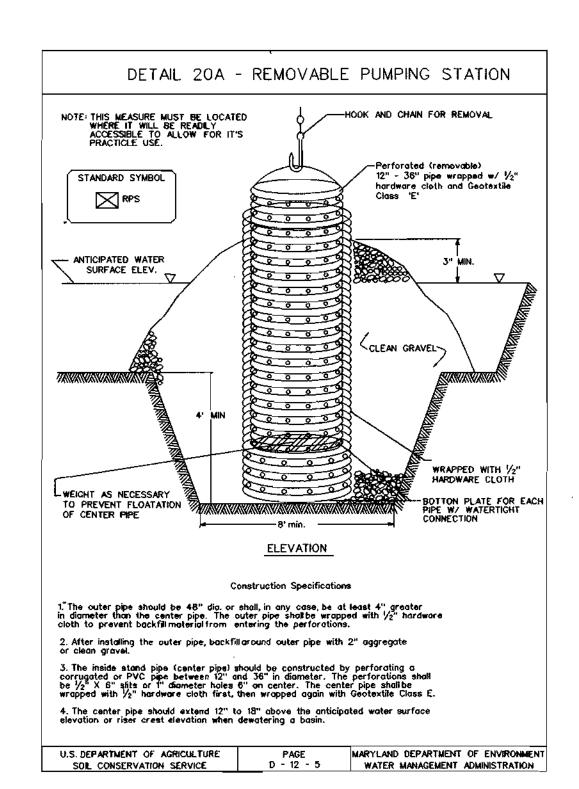


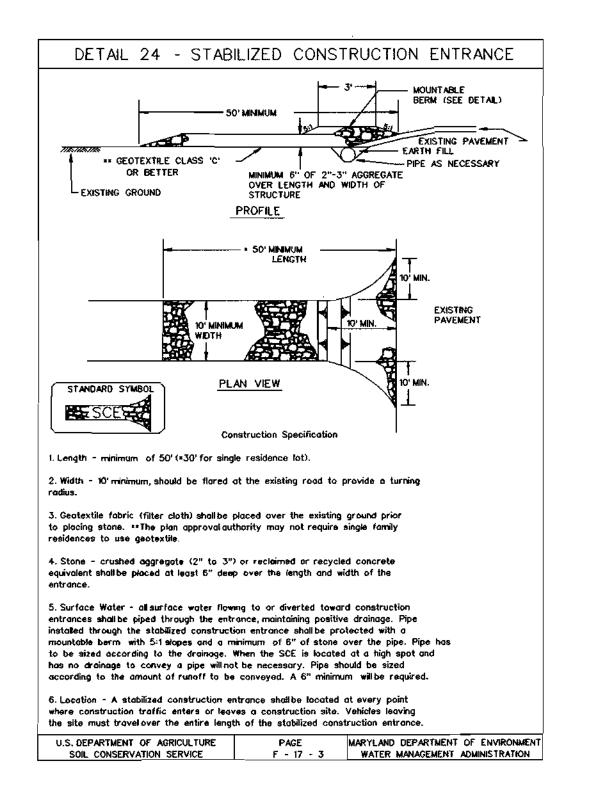
3-4-04

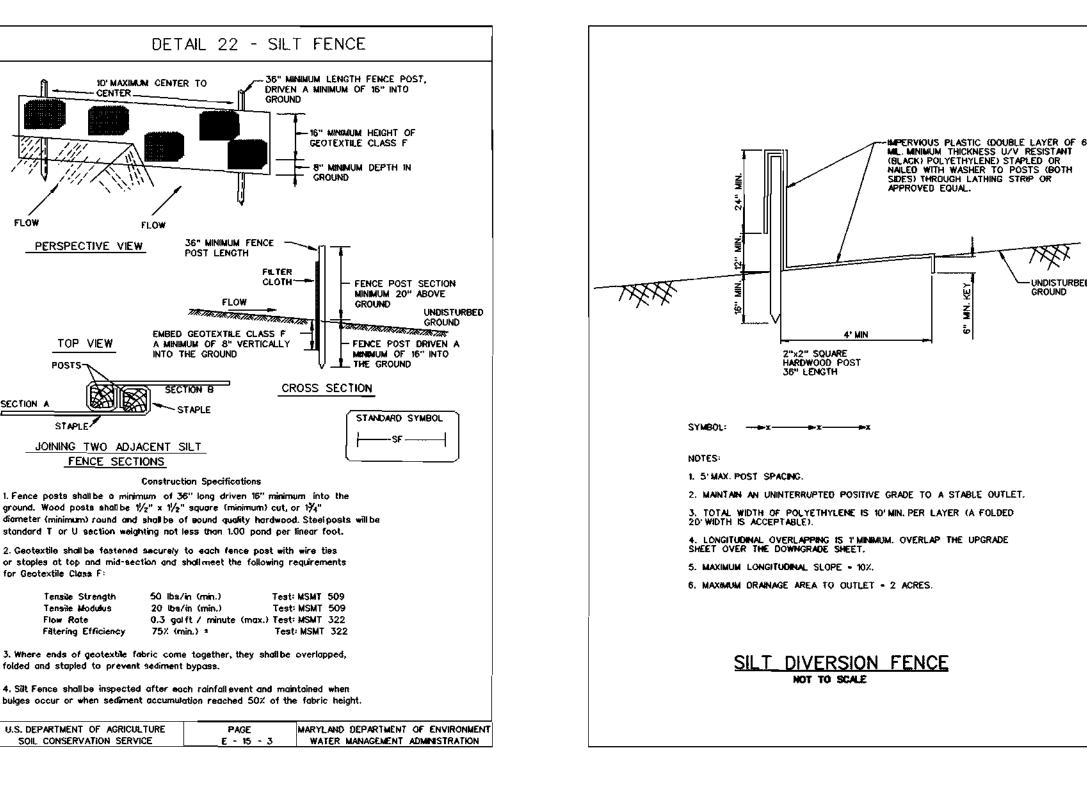
D-1126

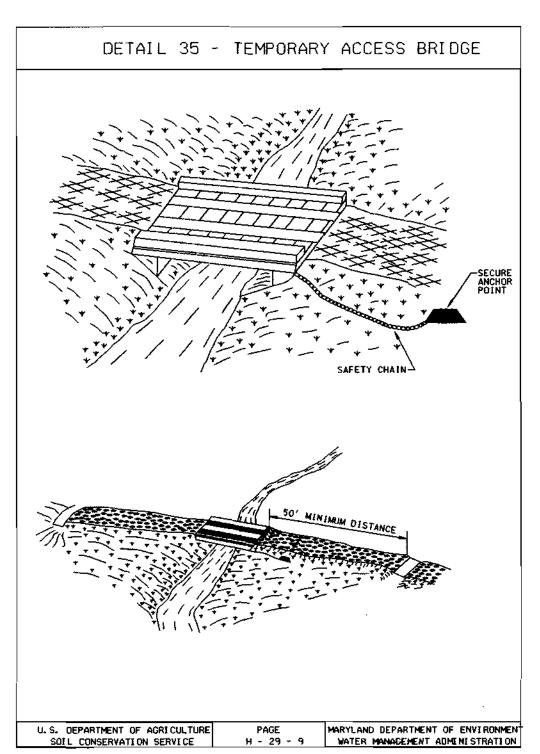
01-01128.e



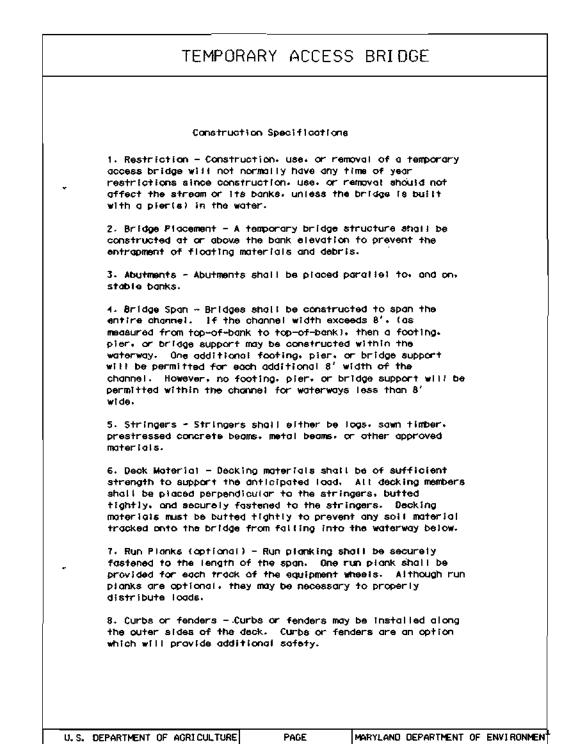




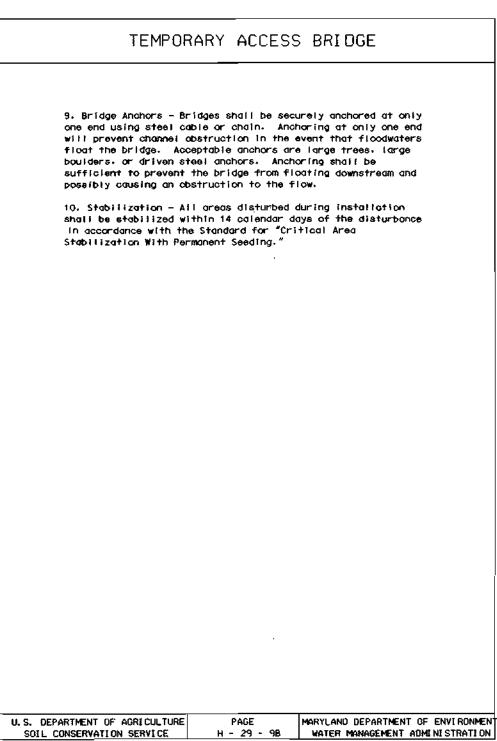


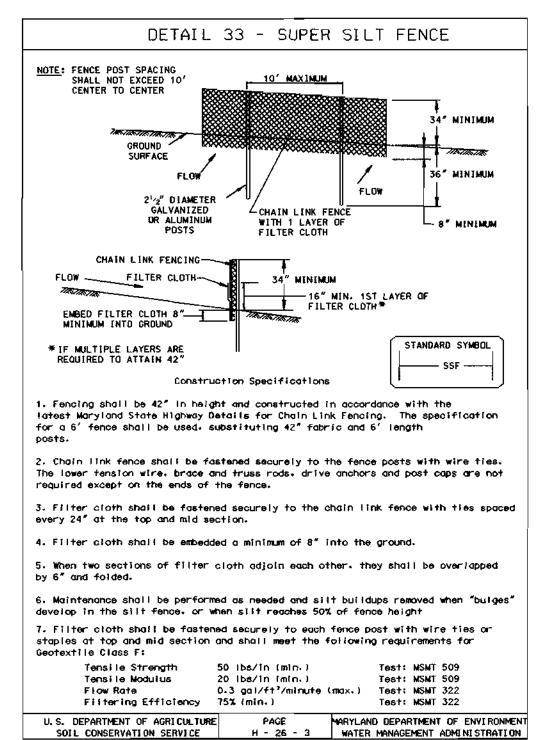


10:03 AM on Thursday, March 04, 2004" Jackson Division: Environmental Engineering 1001/0101128.e\drawings\EP02Yellow.dgn



H - 29 - 9A WATER MANAGEMENT ADMINISTRATION





PERSPECTIVE VIEW

TOP VIEW

Tensite Modulus

Filtering Efficiency

U.S. DEPARTMENT OF AGRICULTURE

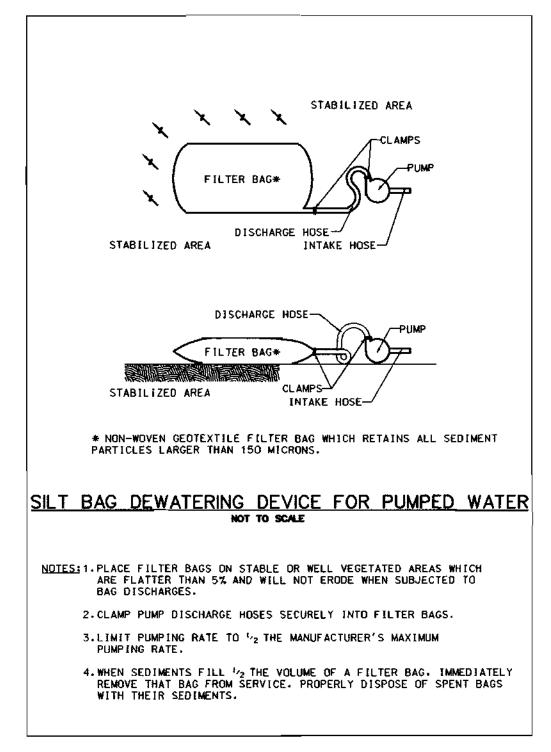
SOIL CONSERVATION SERVICE

Flow Rate

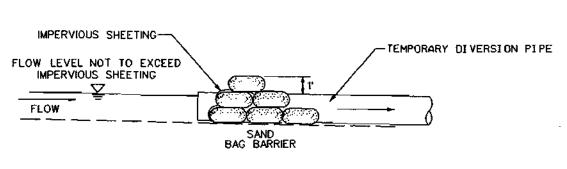
JOINING TWO ADJACENT SILT

FENCE SECTIONS

SECTION A



NOTE: ALL WATER COLLECTED WITHIN THE LIMIT OF DISTURBANCE (WITH THE EXCEPTION OF WATER DIVERTED AROUND THE WORK AREA) SHALL BE PUMPED THROUGH THE FILTER BAG.



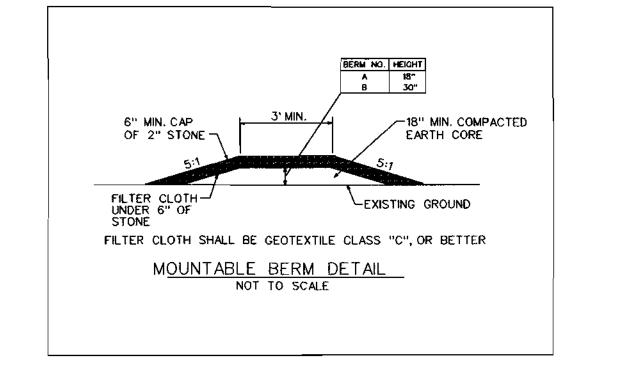
	SAND BAG BARRIER AND TEMPORARY DIVERSION NOT TO SCALE	N PIPE DETAIL
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE		
CHIEF, DIVISION OF LAND DEVELOPMENT IN DATE PLANT DIRECTOR DATE ### DIVISION OF LAND DEVELOPMENT IN DATE	REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS WITHOUT THE PERSON PORT OF THE	4/15/04
*	THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.	4/15/0

SOIL CONSERVATION SERVICE

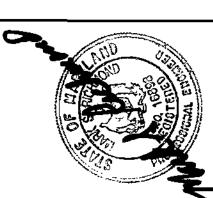
ENGINEER'	S CERTIFICATE	
"ICERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION COMBASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVE	INS AND THAT IT WAS PREPARE	
Mark S. Richmond	P.E. • 16898	3/4/04
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) MARK S. RICHMOND		DATE
DEVELOPER	R'S CERTIFICATE	
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION		THIS PLAN FOR SEDIMENT
AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSON HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF	INEL INVOLVED IN THE CONSTRI	UCTION PROJECT WILL
THE CONTROL OF SEDIMENT AND EROSION BEFORE THE BEGIN ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERV	NNING OF THE PROJECT, IALSO	
Steve Shavar		3/15

Steve Shavar

SOIL CONSERVATION SERVICE







EROSION SEDIMENT DETAILS

SCALE:	N/A
DATE:	3-4-04
KCIJOB NO.:	01-01 1 28.e
CAPITAL PROJECT NO.:	D-1126

CONSTRUCTION ISSUE:

•	SIZE RANGE	D 50	D 100	AASHTO	HEIGHT
NUMBER 57*	3/8"-1 1/2"			M-43	N/A
NUMBER 1	2"-3"		3''	M-43	N/A
RIP-RAP**	4"-7"	_	7"	N/A	N/A
CLASS I	N/A		15"	N/A	150 L.B. MAX.
CLASSEII	N/A		24'	N/A	700 LB. MAX.
CLASS III	N/A		34"	N/A	2000 LB. MAX

THIS CLASSIFICATION IS TO BE USED ON THE INSIDE FACE OF STONE OUTLETS ** THIS CLASSIFICATION IS TO BE USED WHENEVER SMALL RIP-RAP IS REQUIRED THE STATE HIGHWAY ADMINISTRATION DESIGNATION FOR THIS STONE IS STONE FOR GABIONS (905.01.04).

24.0 MATERIALS AND SPECIFICATIONS TABLE 27 GEOTEXTILE FABRICS

CLASS	APPARENT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSIMIN.
A	0.30**	250	500
В	0.60	200	320
С	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40 - 0.80 -	90	190

* US STD. SIEVE CW-02215 ** .50 MM. MAX. FOR SUPER SILT FENCE

THE PROPERTIES SHALL BE DETERMINED IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:

- APPARENT OPENING SIZE MSMT 323

-GRAB TENSILE STRENGHT ASTM D 1682 4"x8" SPECIMEN 1"x2" CLAMPS, 12"/ MIM. STRAIN RATE

IN BOTH PRINCIPAL DIRECTIONS OF GEOTEXTILEFABRIC.

WITH MSMT 322.

"10:04 AM on Thursday, March D4, 2004" Jackson Division: Environmental Engineering 2001/0101128.e\drawings\EPO3Yellow.dgn

-BURST STRENGHT ASTM D 3786 THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDRCARBONS, AND WILL BE ROT AND MILDEW RESISTANT. IT SHALLBE MANUFACTTURED FROM FIBERS CONSISTING OF LONG CHAIN SYNHETIC POLYMERS, AND COMPPOSED OF

A MINIMUM OF 85% BY WEIGHT OF POLYOLEPHINS, POLYESTERS, OR POLYAMIDES. THE GEOTEXTILE FABRIC SHALL RESIST DETERIORATION FROM ULTRAVIOLET EXPOSURE. IN ADDITION CLASSES A THROUGH E SHALL HAVE A 0.01 CM/SEC. MINIMUM PERMEABILITY WHEN TESTED IN ACCORDANCE WITH MSMT 507, AND AN APPARENT MINIMUM ELONGATION OF 20 PERCENT (20%) WHEN TESTED IN ACCORDANCE WITH

THE GRAB TENSILE STRENGTH REQUIREMENTS LISTED ABOVE. CLASS F GEATEXTILE FABRICS FOR ALL SILT FENCE SHALL HAVE A 50LB./IN. MINIMUM TENSILE STRENTH AND A 20 LB/IN MINIMUM TENSILE MODULES WHEN TESTED IN ACCORDANCE WITH MSMT 509, MATERIAL SHALL ALSO HAVE A 0.3

GEOTEXTILE FABRICS USED IN THE CONSTRUCTION OF THE SILT FENCE SHALL RESIST DETERIORATION FROM ULTRAVIOLET EXPOSURE. THE FABRIC SHALL CONTAIN SUFFICIENT AMOUNTS OF ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 12 MOUNTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERTURE RANGE OF 0 TO 120 DEGREES F.

GAL./FT.SQUARED/MIN. FLOW RATE ND SEVENTY-FIVE PERCENT (75%) MINIMUMFILTERING EFFICIENCY WHEN TESTED IN ACCORDANCE

MATERIALS SPECIFICATIONS

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Seedbed preparation: -- Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not préviously

Soil Amendments: -- Apply 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.).

Seeding: -- For periods March 1 - April 30 and from August 15 October 15, seed with 2-1/2 bushelper acre of annual rye (3.2 lbs/1000 sq. ft.). For the period May 1 - August 14, seed with 3 lbs/acre of weeping lovegrass (.07 lbs/1000 ft.). For the period November 16 - February 28, protect site by applying 2 tons/acre of well-anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: -- Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of unrotted weed-free, small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool. No asphalt emulsion shall be used for anchoring. Only a non-toxic, latex backing material is allowed.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods

HOWARD SOIL CONSERVATION DISTRICT PERMANANT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

<u>Seedbed Preparation</u>: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened. <u>Soil Amendments:</u> In lieu of soil test recommendations, use one of the following schedules:

Preferred -- Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq. ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)

. Acceptable -- Apply 2 tons/acre dolomitic limestone (92 jbs/1000 sq. ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding - For the periods March 1 - April 30, and August 1 - October 15, seed with 60 lbs/acre (1.4 lbs/1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 - July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs/acre (.05 lbs/100sq. ft.) of weeping lovegrass. During the period of October 16 - February 28, protect site by: Option 1 - Two tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2 - Use sod.

Option 3 - Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well-anchored straw.

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool. No asphalt emulsion shall be used for anchoring. Only a non-toxic, latex tacking

Maintenance - Inspect all seeding areas and make needed repairs, replacements and reseedings.

* Contractor shall perform a soil test at the site as a first order of business. The results shall be reviewed by Department of Recreation and Parks to determine appropriate soil amendments and fertilization needs for this project. No fertilizer or soil amendments shall be added without approval of Department of Recreation and Parks.

SOILS COMPACTION NOTES:

In general, existing an-site sails free from environmental contamination building debris, frozen, organic or wet materials and with a Unified Soils Classification of CL-ML, or more granular, with a plasticity index less than 12 can be reused as compacted fill. On-site soils with a Unified Soils Classification of CL, CH, or MH or with liquid limits greater than 40 and plastic indices greater than or equal to 12 are not suitable as structural fill. If imported materials are required it should have a Unified Soils Classification of SM or more granular and less plastic and a maximum dry density of at least 105-pcf in accordance with the modified proctor test method (ASTM D-1557) or as approved by the Engineer.

Fill should be placed in horizontal, eight-inch maximum loose lifts and compacted to at least 92 percent of the Modified Proctor maximum dry density (ASTM D-1557). The moisture content of the fill should be properly controlled during placement. Fill being placed on hillsides should be benched to prevent a sliding failure plane.

In-place density tests should be performed by an engineering technician on a full-time basis under the supervision of a geotechnical engineer licensed in the State of Maryland to verify that the proper degree of compaction is being obtained.

SEQUENCE OF CONSTRUCTION

 OBTAIN GRADING PERMIT. 1 DAY 2. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY WORK BEING DONE. THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1880) A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS (410-313-4640) 48 HOURS PRIOR TO THE START OF CONSTRUCTION. 1 WEEK 3. CONTRACTOR SHALL COORDINATE AN ON-SITE PRE-CONSTRUCTION MEETING WHICH SHALL INCLUDE, BUT NOT BE LIMITED TO, THE COUNTY PROJECT MANAGER, THE ENGINEER, AND A REPRESENTATIVE FROM HOWARD COUNTY CONSTRUCTION INSPECTION AND RECREATION AND PARKS. 1 DAY

4. CONTRACTOR SHALL POST NOTIFICATION OF CLOSURE AND/OR DETOUR FOR THE EXISTING PATHWAY IN THE CONSTRUCTION AREA 1 DAY 5. CLEAR AND GRUB THOSE AREAS WITHIN THE LIMIT OF DISTURBANCE REQUIRED TO ESTABLISH THE PROPOSED SEDIMENT CONTROL MEASURES. 2 DAYS

6. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, TREE PROTECTION FENCES, TEMPORARY BRIDGE, AND TEMPORARY STREAM BY-PASS PIPING. NOTE: TEMPORARY STREAM BY-PASS PIPING SHALL BE IN PLACE FOR THE MINIMUM LENGTH OF TIME NECESSARY TO PERFORM THE CHANNEL RE-LOCATION.

7. CONTRACTOR TO REVIEW TREE PROTECTION FENCING LOCATIONS WITH DEPARTMENT OF RECREATION AND PARKS PRIOR TO BEGINNING CONSTRUCTION. 1 DAY

2 WEEKS 8. RELOCATE THE CHANNEL AND CONSTRUCT THE NEW STREAM 9. FINE GRADE SITE AND PERMANENTLY STABILIZE THE DISTURBED AREAS ACCORDING TO THE PLANS, INCLUDING TREE/SHRUB 3 DAYS

10. RECONSTRUCT MACADAM PATHWAY DAMAGED BY THE CONSTRUCTION ACTIVITIES. 3 DAYS 11. WHEN THE SITE IS STABILIZED AND WITH THE PERMISSION OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY AREAS DISTURBED BY THIS ACTIVITY. 2 DAYS

12. NOTE: LIVE STAKING SHALL BE DONE DURING THE DORMANT SEASON (DECEMBER 1 - MARCH 30, HOWEVER, THE FEBRUARY 15 - MARCH 30 TIME PERIOD IS PREFERRED.) 2 DAYS

HOWARD COUNTY CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any

2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding (Sec. 51), sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.

6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.

Site Analysis Total Area of Site Area Disturbed

0.38 Acres Area to be roofed or paved Area to be vegetatively stabilized 0.38 Acres

Offsite waste/borrow area location
To Be Determined Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

Additional sediment control must be provided, if deemed necessary by the Howard

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.

ENGINEER'S CERTIFICATE

P.E. • 16898

3/4/04

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is shorter. *Offsite waste/borrow site shall have an approved sediment control plan.

21.0 STANDARD AND SPECIFICATIONS FOR

TOPSOIL Definition

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies This practice is limited to areas having 2:1 or flatter slopes

- a. The texture of the exposed subsoil/parent material is not
- adequate to produce vegetative growth. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
- c. The original soil to be vegetated contains material toxic to
- d. The soil is so acidic that treatment with limestone is not
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the

Construction and Material Specifications

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications.

Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.

II. Topsoil Specifications - Soil to be used as topsoil must meet the

i. Topsoil shall be a loam, sandy loam, clay loam, sitt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixutre of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, stand course fragments growed sticks roots trash or slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.

ii. Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be disturbed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following proceures.

Ill. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section * - Vegetative Stabilization Methods and Materials. IV. For sites having disturbed areas over 5 acres:

> i. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to

b. Organic content of topsoil shall be not less than 1.5 percent by weight.

c. Topsoil having soluble salt content greater than 500

parts per million shall not be used. d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time as elapsed (14 days min.)

to permit dissipation of phyto-toxic materials.

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

ii. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section * - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment

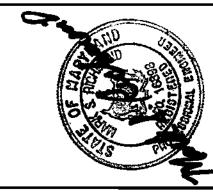
ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8"

iii. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that my otherwise be detrimental to proper grading and seedbed preparation.



Ο.



/ RIDGE LOT 73 TION Q_ スシ

> **EROSION** AND SEDIMENT CONTROL NOTES

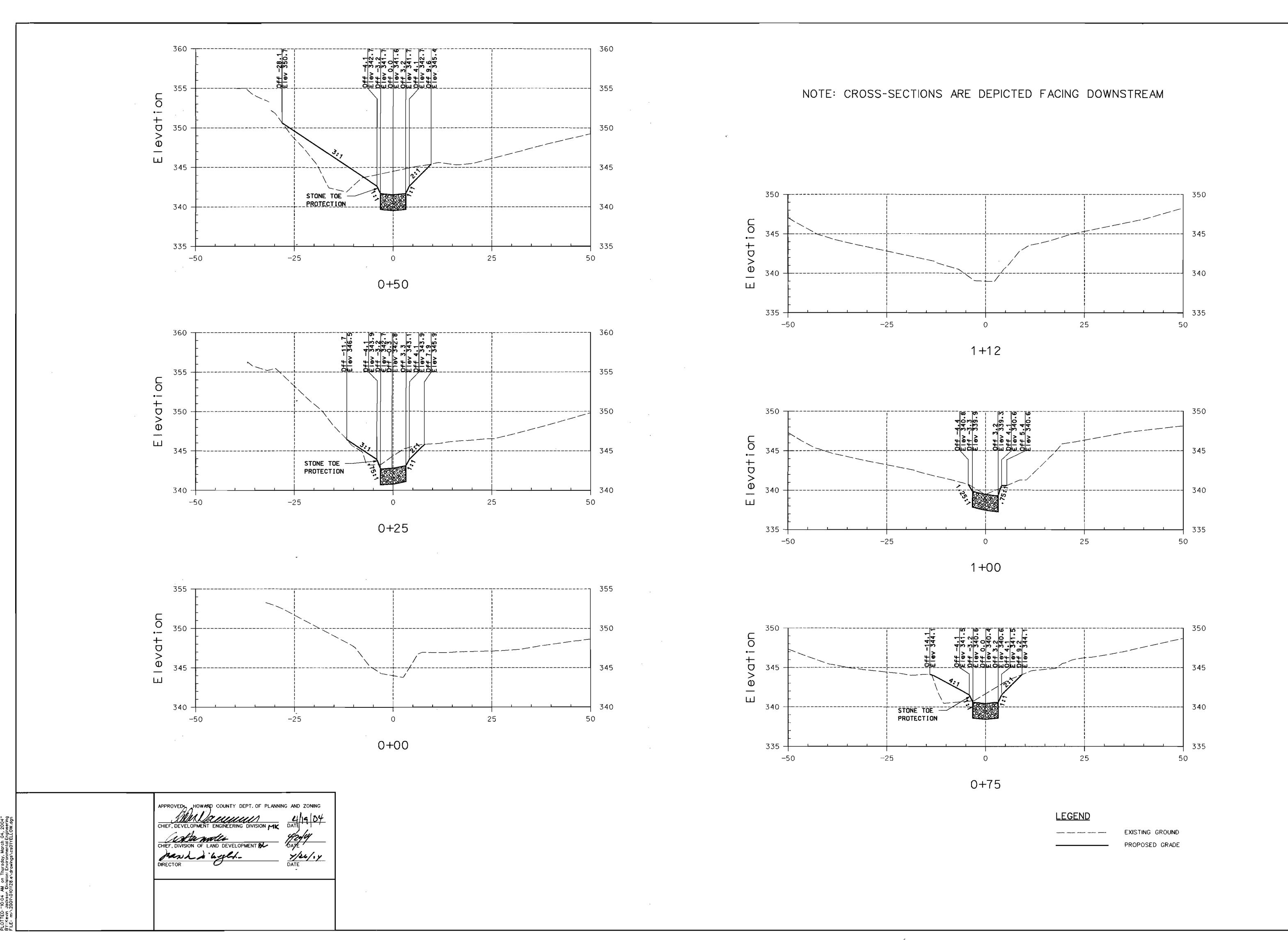
SCALE:	31/4
	N/A
DATE:	
	3-4-04
KCIJOB NO.:	
	01-01 1 28.e
CAPITAL PROJECT NO.:	D-1126
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	·

CHIEF, DEVELO	OPMENT ENGINEERING	G DIVISION MK	4 19 0 DATE /00
CHIEF, DIVISIO	N OF CAND DEVELO	PMENT AV	SATE / OY
DIRECTOR			DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS EVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE

"ICERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT" SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DEVELOPER'S CERTIFICATE "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE THE BEGINNING OF THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT" Steve Shavar SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) Steve Shavar

3/15/04



NO. REVISIONS DESCRIPTION

DA

KCI FILE: m:\2001\0101128.e\drawings\cs01YELLOW.dgn

PLANNERS

SCIENTISTS

CONSTRUCTION MANAGERS



AGE OF HICKORY RIDGE CTION 3, AREA 7, LOT 73 STREAM RESTORATION AND PARKS 7120 OAKLAND MILLS BOAD COLUMBIA, MARYLAND 21048-1677

CROSS SECTIONS

HOR. 1"=10' VERT. 1"=5'

DATE: 3~4~04

KCIJOB NO.: 01-01128.e

CAPITAL PROJECT NO.: D-1126

PERMIT ISSUE:

9

DP-04-043

INDEX OF SHEETS SHEE DESCRIPTION NO. TITLE SHEET GEOMETRY SHEET PLAN AND PROFILE SHEET LANDSCAPE PLAN DETAIL SHEET EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL DETAILS EROSION AND SEDIMENT CONTROL NOTES CROSS - SECTIONS

EX. TREES

WETLANDS

------ SILT FENCE

→× →× SILT DIVERSION FENCE

---- ORANGE SAFETY FENCE

EXIST. MAJOR CONTOUR

EXIST, MINOR CONTOUR

PROP. MAJOR CONTOUR

PROP. MINOR CONTOUR

EXIST. PROPERTY LINE

LIMIT OF DISTURBANCE

SUPER SILT FENCE

SOILS BOUNDARY

SAVE TREE

REMOVE TREE

PROTECTION

RIPARIAN ZONE

BUFFER ZONE

0%-14.99% SLOPES

15.0%-24.99% SLOPE

EXISTING FLOODPLAIN

PROPOSED FLOODPLAIN

EX. UNDERGROUND CABLE TV

EX. UNDERGROUND TELEPHONE

>25.0% SLOPES

EX. WATER LINE

EX. STORM DRAIN

---- OHE ---- EX. OVERHEAD ELECTRIC

LIVE STAKE ZONE

TRY TO SAVE TREE

IMBRICATED STONE TOE

TEMPORARY PUMPING STATION

LEGEND

SITE DEVELOPMENT PLAN MILLAGE OF HICKORY RIDGE

STREAM RESTORATION HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS CAPITAL PROJECT D-1126

SPECIAL CONTRACTOR NOTES

- 100-YEAR FLOODPLAIN ELEVATION IS SHOWN ON THE PLANS.
- NO STOCKPILE OF ANY MATERIAL IS ALLOWED IN THE 100-YEAR FLOODPLAIN. IN-STREAM WORK IS PROHIBITED FROM MARCH 1ST TO JUNE 15TH, INCLUSIVE.
- STREAM CLASSIFICATION: USE I-P. CONTRACTOR SHALL CONTINUALLY MONITOR WEATHER FORECASTS DURING
- WORK ACTIVITIES AND SCHEDULE WORK DURING FAVORABLE CONDITIONS. THE CONTRACTOR SHALL EXERCISE CARE IN ACTIVITIES INVOLVING EITHER CUT AND FILL OR GRADING IN THE VICINITY OF TREES THAT ARE TO REMAIN AT THE CONSTRUCTION SITE. ALL EARTH CUTS AND ACTIVITIES IN THE VICINITY OF TREES TO REMAIN SHALL BE MADE IN A MANNER THAT DOES NOT DISTURB THE CRITICAL ROOT ZONE WITHIN THE DRIPLINE OF THE TREE. PROTECTIVE ORANGE FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE CRITICAL ROOT ZONE PRIOR TO CONSTRUCTION. THE LOCATION OF THE PROTECTIVE ORANGE FENCING SHALL BE APPROVED BY HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL NOT STORE EQUIPMENT, MATERIALS AND/OR SUPPLIES BEYOND THE ORANGE FENCING SHOWN ON THE PLANS.
- 7. UPON COMPLETION OF THE WORK, BUT PRIOR TO DE-MOBILIZATION, THE CONTRACTOR SHALL REMOVE ALL REMNANTS OF CONSTRUCTION MATERIALS FROM THE SITE. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, A VIDEOTAPE AND PHOTOGRAPHS OF THE CHANNEL FROM THE PROPOSED UPSTREAM LIMIT OF WORK TO THE EXISTING FOOTBRIDGE SHALL BE TAKEN BY THE CONTRACTOR. THE PHOTOGRAPHS AND VIDEOTAPE SHALL ALSO INCLUDE THE PROPOSED CONSTRUCTION ACCESS ROUTE AND MATERIAL STORAGE AREAS. THE CONTRACTOR SHALL ALSO TAKE PHOTOGRAPHS AND VIDEOTAPE OF THE SAME AREA UPON COMPLETION OF CONSTRUCTION AND STABILIZATION. THE VIDEOTAPE AND PHOTOGRAPHS SHALL BE TURNED OVER TO THE COUNTY PROJECT MANAGER.
- 9. ALL TREES TO BE REMOVED SHALL BE CUT AT THE BASE WITH A SAW AND NOT PUSHED OVER. TREE STUMPS MAY BE LEFT IN PLACE.
- 10. ANY PORTION OF TREES THAT ARE REMOVED SHALL BE REMOVED FROM THE SITE.
- 11. IN AREAS WHERE CONSTRUCTION TRAFFIC MUST DRIVE WITHIN THE CRITICAL ROOT ZONE OF A TREE TO REMAIN, THE CONTRACTOR SHALL PLACE WOOD MATS TO DISTRIBUTE THE LOAD OF THE CONSTRUCTION VEHICLES. 12. THE EXISTING RIP RAP IN THE CHANNEL SHALL BE RE-USED TO THE EXTENT
- PRACTICAL AS DIRECTED BY THE ENGINEER TO MEET THE STONE SPECIFIED FOR THE RELOCATED CHANNEL.
- 13. THERE MAY BE SEVERAL LOCATIONS WHERE CONSTRUCTION VEHICLES MUST SQUEEZE BETWEEN TWO EXISTING TREES TO REMAIN. HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS SHALL BE NOTIFIED AND SHALL DETERMINE THE EXACT COURSE OF ACTION TO BE FOLLOWED.
- 14. PRIOR TO BEGINNING ANY CONSTRUCTION, CONTRACTOR SHALL ARRANGE FOR HOUSE INSPECTIONS/PHOTOGRAPHS TO DOCUMENT EXISTING CONDITIONS PRIOR TO CONSTRUCTION. HOWARD COUNTY PROJECT MANAGER WILL MAKE INITIAL CONTACT WITH AFFECTED HOMEOWNERS TO DISCUSS THE NEED FOR THE INSPECTIONS. INSPECTION SHALL INCLUDE INSIDE AND OUTSIDE OF HOUSES.

LOT/PARCEL *	STREET ADDRESS
73/399	12009 YELLOWBELL LANE

PERMIT INFORMATION CHART APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING VILLAGE OF HICKORY RIDGE SECTION 3, AREA CHIEF, DEVELOPMENT ENGINEERING DIVISION MK 4718/41 LAND DEVELOPMENT WATER CODE DEPARTMENT OF PUBLIC WORKS |

HOWARD COUNTY, MARYLAND

DEPARTMENT OF RECREATION AND PARKS

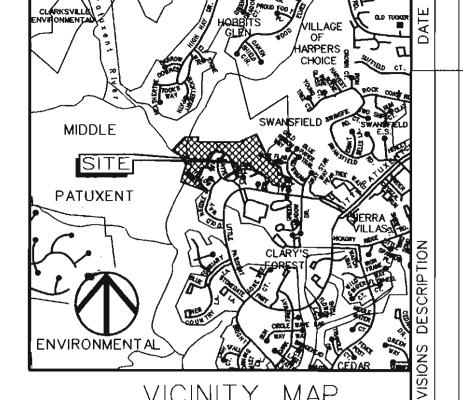


BENCHMARK DATA

PROPERTY BAR W/CAP N 502585.174 E 828180.763

PROPERTY BAR W/CAP N 502628.367 E 828070.985

II-CUT ON RIM OF SS MH ELEV.=357.21



VICINITY MAP

Scale : 1" - 2000'

GENERAL NOTES

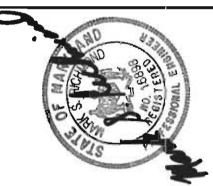
- 1. THE SUBJECT PROPERTY IS ZONED NT PER THE 10/18/93 COMPREHENSIVE
- 2. THE DEPARTMENT OF PLANNING AND ZONING HAS DETERMINED THAT THE DISTURBANCE WITHIN THE FLOODPLAIN, STREAM, AND WETLANDS IS ESSENTIAL IN ORDER TO CONSTRUCT THIS PROJECT.
- 3. THIS PLAN IS PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION
- 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. THERE ARE NO BURIAL GROUNDS OR CEMETERY SITES LOCATED ON THE
- REFERENCE NUMBERS OF OTHER APPROVED PLANS: SDP 86-28c and F 85-06,
- VILLAGE OF HICKORY RIDGE, SECTION 3, AREA 7. 6. THIS PROJECT IS EXEMPT FROM THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BECAUSE THE SITE IS PART OF A PLANNED UNIT DEVELOPMENT WHICH HAS PRELIMINARY
- DEVELOPMENT PLAN APPROVAL BEFORE 12/31/92. 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 8. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION WORK
- 9. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 10. TRAFFIC CONTROL SHALL BE PROVIDED DURING CONSTRUCTION. HOWARD COUNTY STANDARD DETAIL TE-11 SHALL APPLY.
- 11. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- 12. THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. BENCHMARKS SHOWN HEREON WERE PROVIDED BY HOWARD COUNTY SURVEY DIVISION.
- 13. WATER IS PUBLIC.
- 14. SEWER IS PUBLIC. STORMWATER MANAGEMENT IS NOT REQUIRED FOR THIS PROJECT SINCE THE PROJECT WILL NOT ADD IMPERVIOUS AREA NOR WILL IT CHANGE THE
- EXISTING HYDROLOGY OF THE SITE. 16. EXISTING UTILITIES ARE BASED ON FIELD SURVEYS AND AVAILABLE RECORD
- DRAWINGS. 17. THE FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY KCI TECHNOLOGIES, INC., DATED AUGUST 2003 AND WAS APPROVED IN
- 18. THE WETLANDS DELINEATION FOR THIS PROJECT WAS PERFORMED BY KCI
- TECHNOLOGIES, INC. IN SEPTEMBER 2002. 19. TOPOGRAPHIC SURVEY OF THE SITE WAS PERFORMED BY AB CONSULTANTS,
- INC. IN OCTOBER 2002. 20. A JOINT PERMIT APPLICATION HAS BEEN SUBMITTED TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR THIS PROJECT. (TRACKING NUMBER
- 21. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT
- 22. OBSTRUCTIONS SHOWN ON THIS DRAWING ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND KCITECHNOLOGIES, INC. DOES NOT WARRANT OR GUARANTEE THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION GIVEN. THE CONTRACTOR MUST VERIFY SUCH INFORMATION TO HIS OWN SATISFACTION.
- 23. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER,
- THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES. 24. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY.
- 25: EXISTING MACADAM PATHWAY DISTURBED BY THE PROPOSED WORK SHALL BE RECONSTRUCTED AS PER THE DETAIL SHOWN HEREON.
- 26. THE PROPOSED PROJECT IS LOCATED BEHIND 12019 YELLOWBELL LANE.

SITE ANALYSIS DATA CHART

- TOTAL PROJECT AREA: 29.35 ACRES (1,278,486 SF).
- DISTURBED AREA: 0.38 ACRES (16,550 SF). PRESENT ZONING DESIGNATION: NT
- SITE IS LOCATED IN MIDDLE PATUXENT ENVIRONMENTAL AREA. PROPOSED USE FOR THE SITE: STABILIZE EXISTING BANK/CHANNEL EROSION.
- OPEN SPACE ON SITE: 29.35 ACRES AND 100% OF GROSS AREA.
- APPLICABLE DPZ FILE REFERENCES: SDP 86-28c and F 85-06 VILLAGE OF HICKORY RIDGE, SECTION 3, AREA 7.

ASBUILT 11-19-04 SHEET 1,3 AND 9





RIDGE OT 73 ION KORY TORY Q_ 33, <u>S</u>

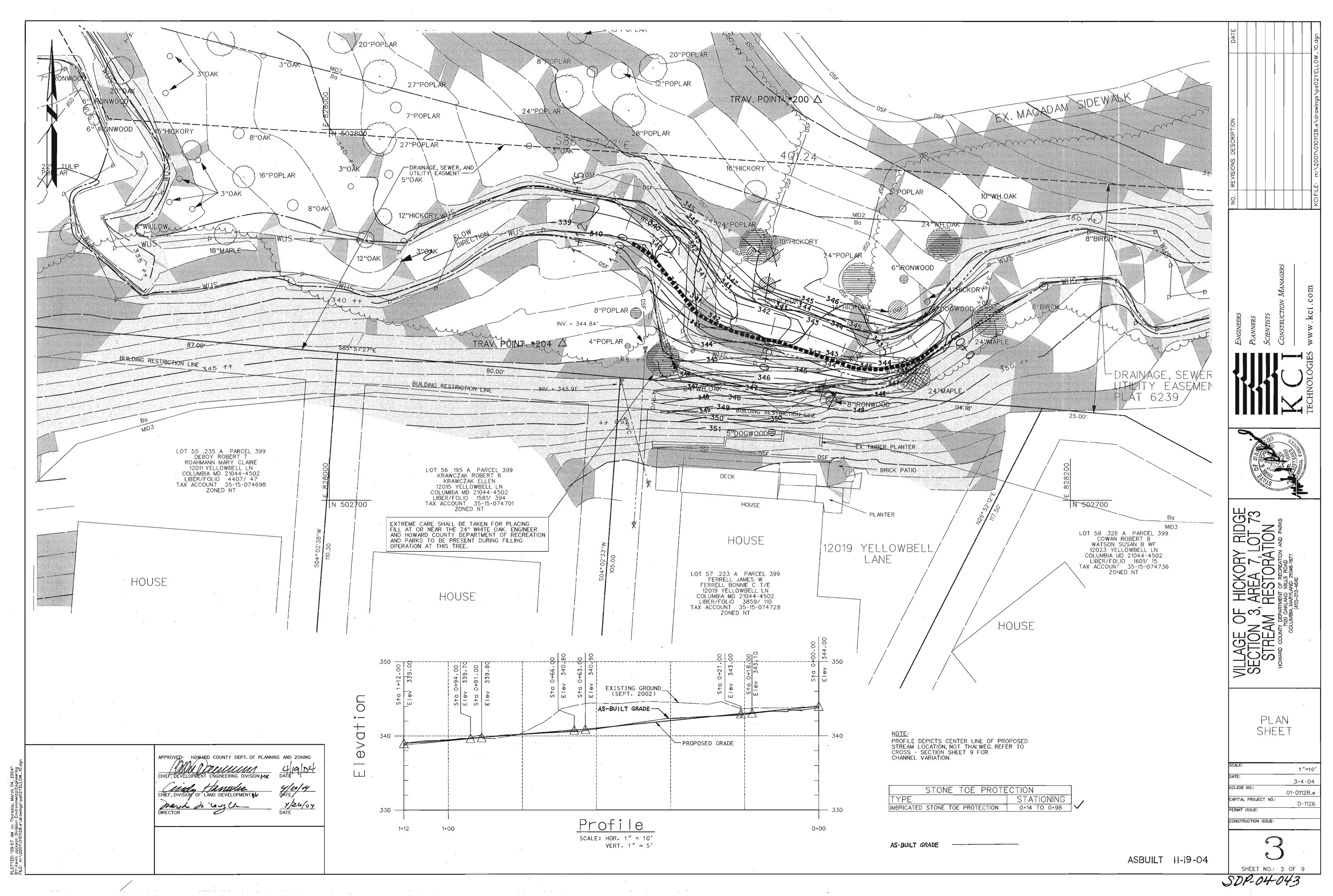
> TITLE SHEET

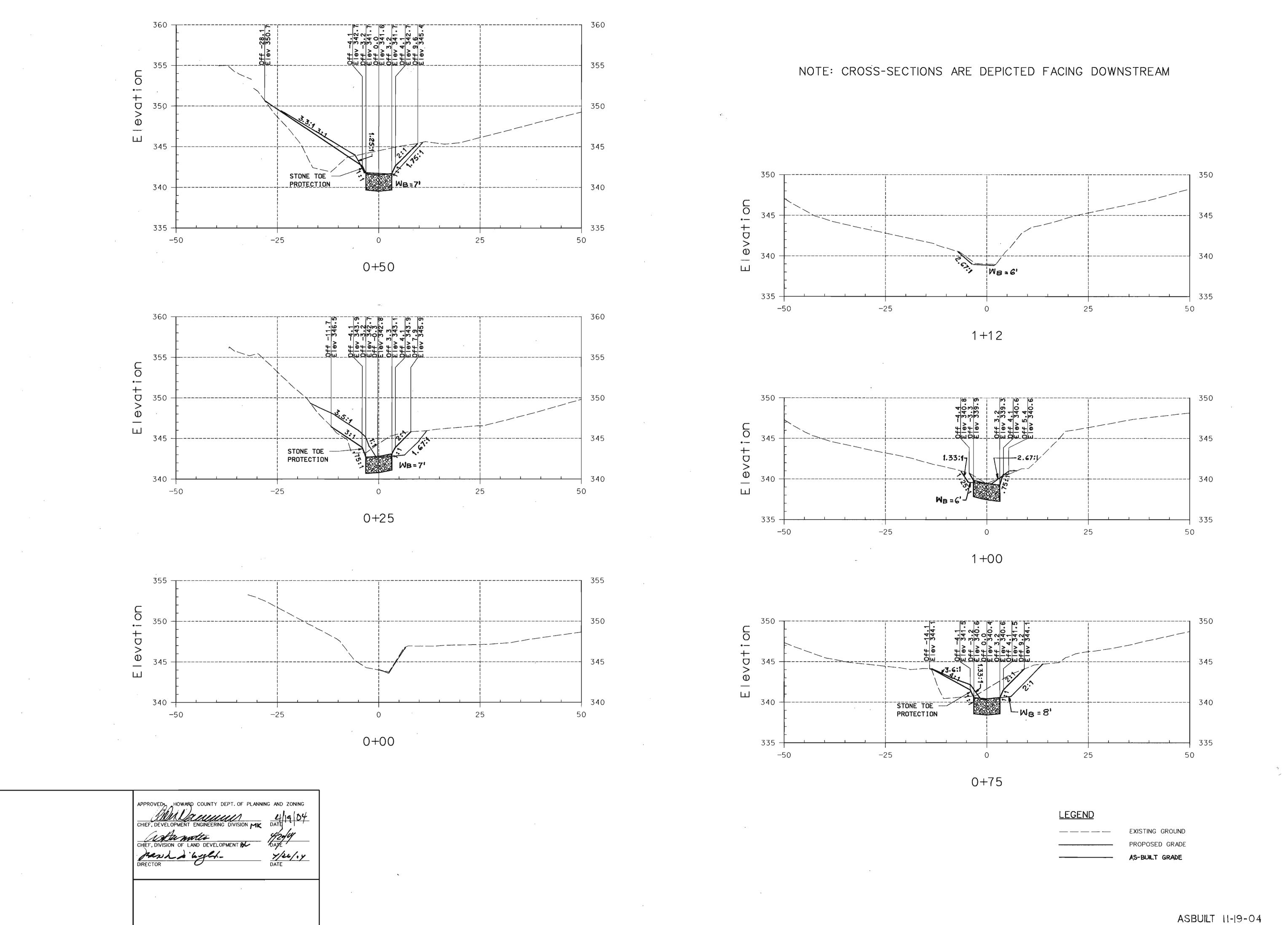
SCALE:	AS SHOWN
DATE:	3-4-04
CLJOB NO.:	01-01128.e
CAPITAL PROJECT NO.:	D-1126
PERMIT ISSUE:	

CONSTRUCTION ISSUE:

SHEET NO.: 1 OF 9

SDP-04-043





CROSS SECTIONS HOR. 1"=10' VERT. 1"=5' 3-4-04 01-01128.e

PERMIT ISSUE:

CONSTRUCTION ISSUE: