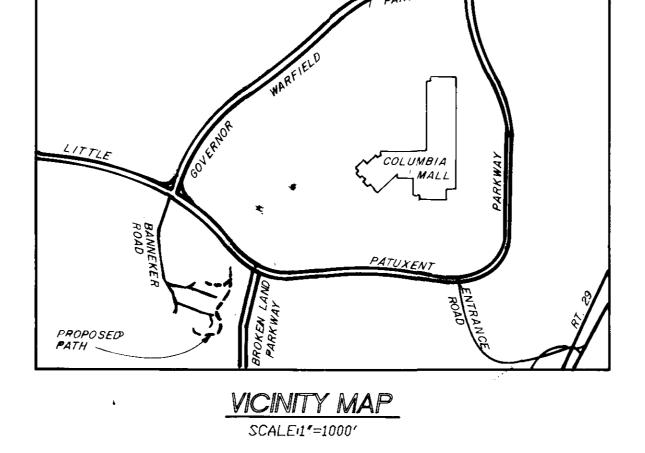
GENERAL NOTES

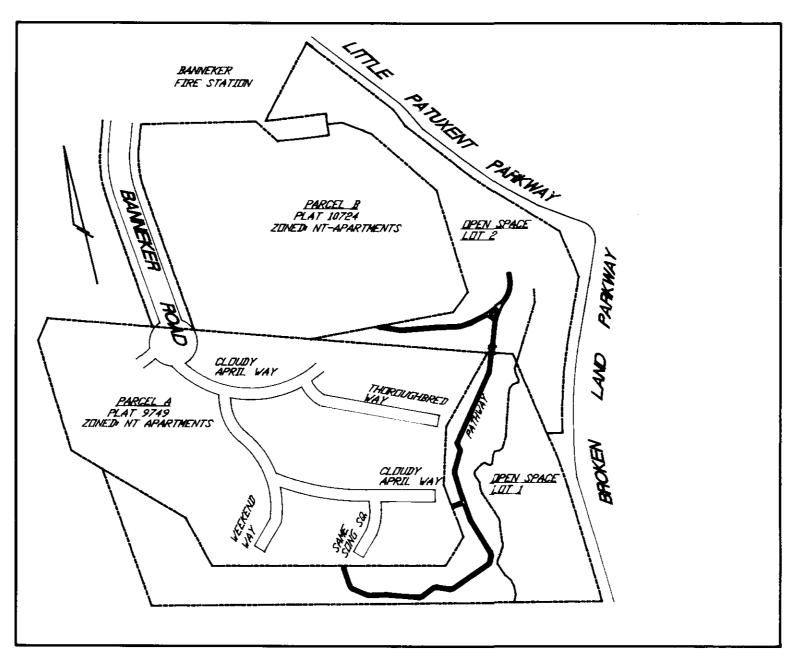
C & P TELEPHONE CO.

- 1. TOPOGRAPHY ON THIS DRAWING HAS BEEN TRACED FROM AVAILABLE PUBLIC RECORDS, THE OWNER OR ARCHITECT DO NOT GUARANTEE THE INFORMATION HEREON, NOR DOES INFORMATION SHOWN OR NOT SHOWN RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PROPER COMPLETION OF GRADING.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION,
- 3. DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIDE WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UN-
- 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERUPTED SERVICE AND MINIMUM COVER. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S ACTIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND MAINTAIN MINIMUM COVER IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- 6. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 5 DAYS BE-FORE THE START OF WORK SHOWN ON THESE PLANS! "MISS UTILITY" 1-800-257-7777 BALTIMORE GAS & ELECTRIC CO. (410) 954-6260
- 7. FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NOT NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PREFORM SUCH WORK.
- 8. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR CONSTRUCTION.
- 9. A WAIVER HAS BEEN SUBMITTED FOR STORM WATER MANAGEMENT QUANTITY AND QUALITY CONTROL, A FEE IN LIEU OF STORMWATER MANAGEMENT HAS BEEN REQUESTED.

(410) 393-3648

- 10. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS/CON-STRUCTION INSPECTION DIVISION AT (410) 313-1880 48 HOURS DAYS IN ADVANCE OF THE COMMENCEMENT OF WORK.
- 11. PRIDR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL STAKE OUT ALL CONSTRUCTION AND VERIFIY ALL OFFSETS, SETBACKS, EXISTING UTILITY LOCATIONS (HORIZONTAL AND VERTICAL), AND DIMENSIONS.
- 12. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY THE ENGINEER. 13. ALL FILL SHALL BE ROLLED TO A MINIMUM DEGREE OF COMPACTION TO 95% OF WEIGHT AS DETERMINED BY ASTM-D-698.
- 14. ALL TREES 12" IN DIAMETER OR GREATER SHALL REMAIN PROTECTED AND UNDAMAGED AT ALL TIMES.
- 15. THE DEVELOPER SHALL REQUEST THAT THE DEPARTMENT OF INSPECTIONS, PERMITS AND LICENSES APPROVE WORK COMPLETED IN ACCORDANCE WITH THE EROSION AND AND SEDIMENT CONTROL PLAN AND THE GRADING OR BUILDING PERMIT.
- 17. 100 YR FLOOD PLAIN AND WETLANDS SHOWN ARE BASED ON PLATS 9749 AND 10724.
- 18. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN SEDIMENT AND EROSION CONTROL MEASURES AND NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPEC-TIONS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410) 313-1855, SEE SHEET 3 FOR ADDITIONAL NOTES.
- 19. ALL PROPOSED IMPROVEMENTS WILL BE MAINTAINED BY THE OWNER.
- 20. IN ACCURDANCE WITH FDP NO.61-A-II, FOR OPEN SPACE LAND USE, NO STRUCTURE SHALL BE LOCATED WITHIN 10 FEET OF A PUBLIC STREET, ROAD OR HIGHWAY RIGHT-OF WAY, OR WITHIN 25 FEET OF ANY PROPERTY LINE; EXCEPT IF SHOWN ON AN SDP BY THE HOWARD COUNTY PLANNING BOARD,
- 21. ADJUSTMENTS TO THE SEQUENCE OF CONTRUCTION MUST BE APPROVED BY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, PERMITS AND LICENSES PRIOR TO SUCH
- 22. LOT 2 IS SUBJECT TO WP-93-37 (APPROVED 11/12/92) WHICH REQUESTED A WAIVER OF SECTION 116(C)(4) TO ALLOW GRADING OF SLOPES 25% OR GREATER WHEN ADJACENT TO FLOODPLAIN OR WETLANDS OR WHEN THE SLOPE AREA IS OVER 20,000 CONTIGUOUS SQUARE FEET, NO GRADING, CLEARING OR DISTURBANCE IS ALLOWED WITHIN THE 25 FOOT WETLANDS BUFFER OR 75 FOOT STREAM BUFFER.
- 23. WAIVERS WERE GRANTED (WP-94-92) ON 5/26/94 FROM THE FOLLOWING PORTIONS OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS: 16.115(b)(1),116(A)(1) AND (2) AND 116(b)(1) TO ALLOW GRADING/CONSTRUCTION IN THE FLOODPLAIN, WITHIN THE WETLANDS BUFFER AND STREAM BUFFER, AND ON SLOPES GREATER THAN 25%.
- APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. COMPLIANCE WITH COMMENTS FROM SRC FOR SDP-94-114.
- 2. GRADING AND REMOVAL OF VEGETATION SHALL ONLY BE TO THE EXTENT NECESSARY FOR THE PROPOSED PATHWAY.
- 3. CORRECT THE WAIVER EXHIBIT TO INCLUDE STREAM BUFFER AND FLOODPLAIN DISTURBANCE





AREA MAR SCALE: 1'=200'

BANNEKER ROAD PATHWAY CONNECTION

COLUMBIA TOWN CENTER

SITE ANALYSIS

- 1. AREA OF LOTS: LOT 1- 4.3354 AC. LOT 2- 3.165 AC. = 7.50 TOTAL AC.
- 2. ZONING: NEW TOWN FDP N□: 61-A-II
- 3. PROPOSED DEVELOPMENT, PEDESTRIAN PATHWAY
- 4. PROPOSED BITUMINOUS PATHWAY: 1,354 LF TOTAL 8,124 SQ. FT.
- 5. DISTURBED WETLANDS: 294 SQ. FT.
- DISTURBED WETLANDS BUFFER: 4,382 SQ. FT, 0.10 AC. 6. DISTURBED STREAM BUFFER: 7,261 SQ. FT. 0.17 AC.
- 7. TOTAL LIMITS OF DISTURBANCE: 14,902 SQ. FT. 0.34 AC.

APPROVE	ED: FIIR PUBLIC WATER, PUBLIC SEWE STIIRM DRAINAGE SYSTEMS AND PL	
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DWNER	HOWARD RESEARCH AND DEVELOPMEN 10275 LITTLE PATUXENT PKWY COLUMBIA, MARYLAND 21044 (410) 992-6370 R COLUMBIA ASSOCIATION 10221 WINCOPIN CIRCLE	

SHEET INDEX

TITLE SHEET

LAYOUT, GRADING AND SEDIMENT CONTROL PLAN SEDIMENT AND EROSION CONTROL DETAILS

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS.
- 2. NOTIFY MD. DEPARTMENT OF ENVIRONMENT TEN (10) DAYS PRIDR TO COMMENCING
- 3. NOTIFY INSPECTIONS, LICENSES AND PERMITS AT LEAST 48 HOURS BEFORE ANY WORK BEGINS,
- 4. CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES ONLY
- 5. INSTALL STABILIZED CONSTRUCTION ENTRANCES, LOCATE ENTRANCES AS PER AGREEMENT BETWEEN PROPERTY OWNER(S) AND COLUMBIA ASSOCIATION.
- 1 DAY 6. INSTALL TREE PROTECTION FENCE
- 1 DAY 7. INSTALL SEDIMENT AND EROSION CONTROL MEASURES ASSUCIATED WITH BRIDGE AND BUARDWALK CRUSSING AREAS, DBTAIN BUILDING PERMIT FOR CONSTRUCTION OF BRIDGES, INSTALL BRIDGES AND BUARDWALKS TO AVOID DISTURBANCE TO EXISTING STREAM CHANNELS. 5 DAYS
- 8. INSTALL SILT FENCE ALONG THE PATH SECTION TO BE CONSTRUCTED, LIMIT LENGTH OF DISTURBANCE SECTION TO 100 FEET AT ANY DNE TIME DR THAT WHICH WILL BE STABILIZED IN DNE WORK DAY, PLACE ON THE DOWNHILL SIDE OF THE PROPOSED PATH IN ACCURDANCE WITH THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SDIL EROSION AND SEDIMENT CONTROL.
- 9. NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION UPON
- 10. ALL PROPOSED PATHWAY LOCATIONS SHALL BE FIELD STAKED AND APPROVED BY THE PROJECT ENGINEER, PATHWAYS SHALL BE LAID DUT 30' FROM EXISTING STREAM CHANNELS WHERE DPEN SPACE PROPERTY LIMITS PERMIT.

COMPLETITION OF SAID INSTALLATION.

2 DAYS 11. WITH THE APPROVAL OF THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AREAS FOR PATHWAY CONSTRUCTION.

3 DAYS

- 12. GRADE AREAS FOR PATHWAY CONSTRUCTION AS CLOSE TO EXISTING GRADES AS POSSIBLE, CROSS SLOPES SHALL REFLECT EXISTING TOPOGRAPHIC CONDITIONS. 3 DAYS
- 13. MAINTAIN POSITIVE DRAINAGE TO SEDIMENT CONTROL STRUCTURES, NO SLOPES SHALL EXCEED 34 SLOPE STABILIZE ROUGH GRADED AREAS PER SPECIFICATIONS LISTED. 3 DAYS
- 14. STABILIZE ALL DISTURBED AREAS IMMEDIATELY FOLDWING INITIAL SOIL DISTURBANCE AND WITHIN 14 DAYS.
- 15. INSTALL BASE COURSE AND BITUMINIOUS ASPHALT AS REQUIRED TO MAINTAIN POSITIVE DRAINAGE FLOW, PERMANENTLY STABILIZE ALL DISTURBED AREAS ON EITHER SIDE OF PATHWAYS. 10 DAYS
- 16. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL ERUSION CONTROL DEVICES AND STABILIZE THOSE AREAS. 1 DAY

ADDRESS CHART BUIL DING STREET ADDRESS NA 5.26.94 SUBDIVISION NAME SECTION/AREA LOT/PARCEL COLUMBIA TOWN CENTER

PLATS BLOCK ZONE TAX/ZONE MAP ELEC. DIST. CENCUS T 9749 5 10724 WATER CODE SEWER CODE SCALE TITLE SHEET DRAWN JAC BANNEKER ROAD PROJ. NO. DATE *JI1986*

prepared by description RBE ENGINEERS - ARCHITECTS - PLANNERS
THE Arra PEAR LIGHT AND COMMENT
THE ARREST PLANNERS
THE ARREST PLANNERS
THE ARREST PLANNERS
THE PERSON NAMED PARTY P COLUMBIA, MARYLAND 21044

5560 STERRETT PLACE SUITE 300 410/730-7950

PATHWAY CONNECTION HOWARD COUNTY MARYLAND

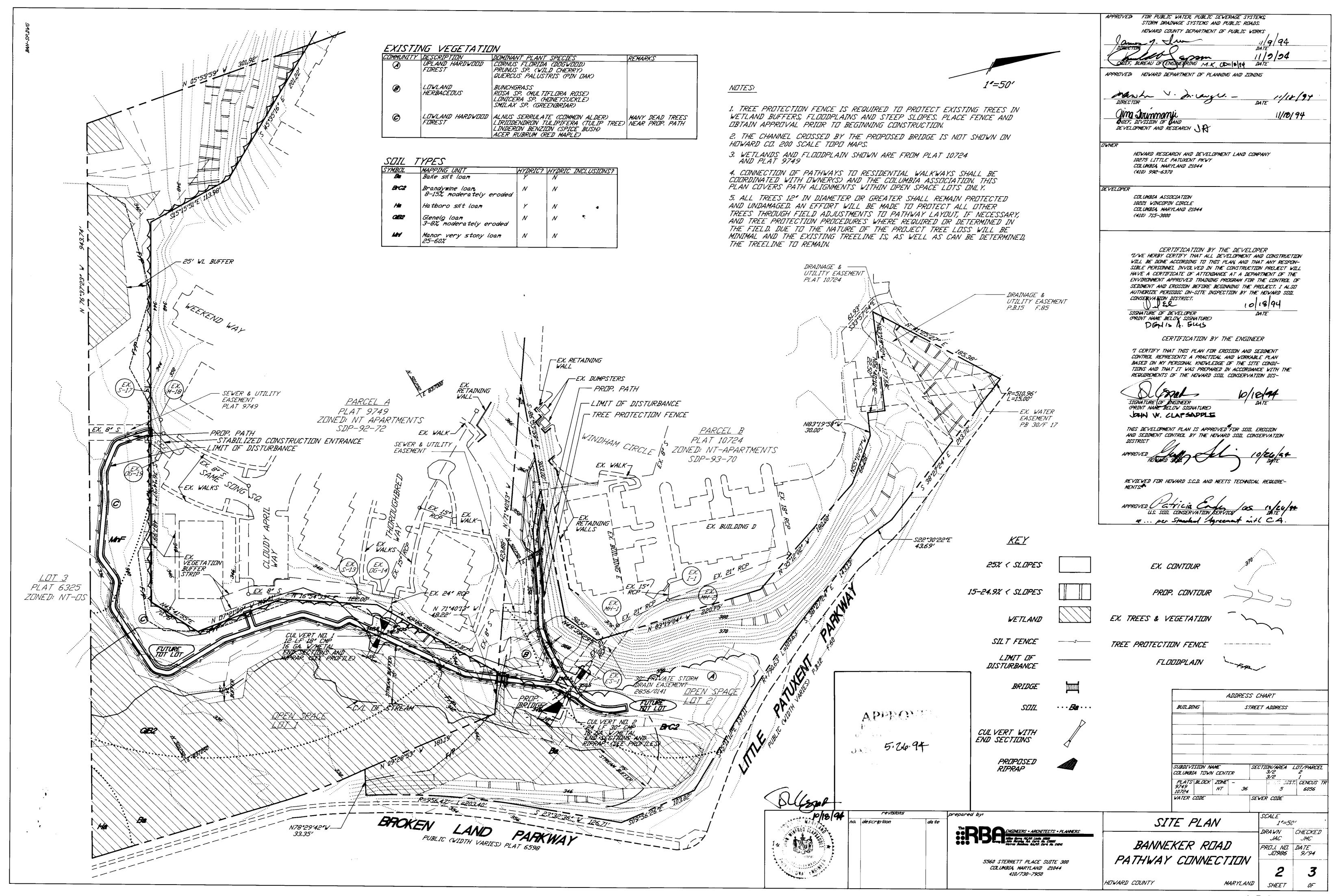
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9/94



APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE SYSTEMS STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. WOVEN WIRE FENCE (MIN. 14-1/2" HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS PERMANENT SEEDING NOTES SEDIMENT AND EROSION CONTROL NOTES GAUGE, MAX, 6' MESH SPACING) STANDARD SYMBOL A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF 10" MAX. C. TO C. APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED. OF ANY CONSTRUCTION (313-1855). SCE SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE APPROVED: HOWARD DEPARTMENT OF PLANNING AND ZONING ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSEN ED. PROVISIONS OF THIS PLAN AND ARE TO BE INCONFORMANCE WITH THE MOST CURRENT FILTER CLOTH 'MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND -MOUNTABLE BERM SOIL AMENDMENTS: IN LIEU OF SOIL TESTS RECOMMENDATIONS, USE ONE OF THE FOLLOWING = 16" MIN. REVISIONS HERETO. (OPTIONAL) EXISTING PROFILE 3. FOLLOWING THE INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY 1. PREFERRED - APPLY 2 TONS PER ARCE DOLOMITIC LIMESTONE (92 GROUND STABILIZATION SHALL BE COMPLETE WITHIN: A> SEVEN (7> CALENDAR DAYS FOR ALL LBS/1000 SQ, FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES LBS/1000 SQ. FT.) BEFORE SEEDING, HARROW OR DISK INTO UPPER THREE GREATER THAN 34, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE INCHES OF SOIL AT THE TIME OF SEEDING APPLY 400 LB. PER ACRE 30-0-0 PROJECT SITE. DEVELOPMENT AND RESEARCH UREAFORM FERTILIZER (9 LBS/1000 SQ FT.) 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND 2. ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMETRIC LIMESTONE ((2 PERSPECTIVE VIEW THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN LBS/1000 SQ. FT.) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE MANUAL, STORM DRAINAGE. EXISTING HIWARD RESEARCH AND DEVELOPMENT LAND COMPANY INCHES OF SOIL. _____ 36' MIN, FENCE POST 10275 LITTLE PATUXENT PKVY PAVEMENT . 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN COLUMBIA MARYLAND 21044 SEEDING- FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU DCTOBER 15, SEED ACCORDANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL WOVEN WIRE FENCE (14-1/2" (410) 992-6370 AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOD (SEC. 54), TEMPORARY WITH 60 LBS. PER ACRE (1.4 LBS/1000 SQ, FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE GA. MIN., MAX. 6" MESH SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND SPACING) WITH FILTER 2 LBS PER ACRE (.05 LBS/100 SQ. FT.) OF WEEPING LOVEGRASS, DURING THE PERIOD OF CAN DNLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINA-CLOTH OVER. DEVELOPER DCTDBER 16 THRU FEBRUARY 28, PROTECT SITE BY: DPTIDN (1) 2 TONS PER ACRE DF WELL TION AND ESTABLISHMENT OF GRASSES. 20" MIN COLUMBIA ASSOCIATION ANCHURED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OPTION (2) USE PLAN VIEW 10221 WINCOPIN CIRCLE 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED SOD, OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 COLUMBIA MARYLAND 21044 IN OPERATIVE CONDITION UNTILL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM TONS/ACRE WELL ANCHORED STRAW. UNDISTURBED GROUND (410) 715-3000 FLOY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. CONSTRUCTION SPECIFICATIONS MULCHING - APPLY 1 1/2 TO TO TONS PER ACRE (70 TO 90 LBS /1000 SQ. FT.) OF UNROTTED SMALL GRAN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION 7. SITE ANALYSIS 1. STONE SIZE - USE 2' STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 7.50 ACRES USING MULCH ANCHORING TOL DR 218 GALLONS PER ACRE <5 GAL/1000 SQ. FT.) DF TOTAL AREA OF THE SITE 2. LENGTH - AS REQUIRED. BUT NOT LESS THAN 50 FEET (EXCEPT ON A RESIDENCE LOT LIMIT OF DISTURBANCE 10' * 0.34 ACRES EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER AREA DISTRUBED: WHERE A 30 FOOT MINIMUM LENGTH VOULD APPLY. 16" MIN. 0.19 ACRES AREA TO BE ROOFED OR PAVED ACRE (8 GAL/1000 SQ. FT.) FUR ANCHURING. 3. THICKNESS - NOT LESS THAN SIX (6) INCHES. STANDARD SYMBOL EMBEDED FILTER CLUTH 0.15 ACRES AREA TO BE VEGETATIVELY STABILIZEDA 4. WIDTH - TEN (10) FOOT MINIMUM BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE PATHWAY 6' MIN. 8' INTO GROUND ' MAINTENANCE - INSPECT AL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND 80 CU, YDS. TOTAL CUT INGRESS OR EGRESS OCCURS. 50 CU. YDS. 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. TOTAL FILL: RESEEDINGS. TYPICAL SILT — FENCE LOCATION OFFSITE WASTE/BORROW AREA LOCATION COUNTY LANDFILL SECTION FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT. 6. SURFACE WATER - ALL SURFACE WATER FLOWING DR DIVERTED TOWARD CONSTRUCTION TEMPORARY SEEDING NOTES SLOPE MIN_2% 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL A OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE MOUNTABLE BERM WITH 31 SLOPES WILL BE PERMITTED. CONSTRUCTION NOTES FOR FABRICATED SILT FENCE APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD VEGETATIVE COVER IS NEEDED. TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF WAY, THIS MAY REQUIRE 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY POSTS: STEEL EITHER T OR U COUNTY DEPT. OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR. PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEM AND AND REPAIR AND/OR TYPE OR 2" HARDWOOD TO FENCE POSTS WITH WIRE TIES OR STAPLES. SEEDBED PREPARATION LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, 4" BAND SN SURFACE COURSE 10. ON ALL SITES, DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LODSENED. COMPACTED SUBGRADE 95% -FENCE: VIVEN VIRE, 14 GA. AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSIDN AND 2. FILTER CLOTH TO BE FASTENED SECURELY TO 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO IRUBL CONTRACTOR SHALL PROVIDE CURLEX SLOPE SEDIMENT CONTROLS, BUT BEOFRE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. 6' MAX. MESH DPENING WOVEN WIRE FENCE WITH TIES SPACED RIGHTS-DF-WAY. WHEN WASHING IS REQUIRED IT SHALL BE DONE IN AN AREA STABILIZED SDIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) STABILIZATION AT ALL SLOPED AREAS OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS EVERY 24' AT TOP AND MID SECTION. WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 9. PERIODIC INSPECTION AND NEEDED MAINTAINANCE SHALL BE PROVIDED AFTER EACH RUN. ADJACENT TO PATHWAYS ---INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. FILTER CLOTH: FILTER X 3. WHEN TWO SECTIONS OF FILTER CLOTH SEEDING FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 THRU NOVEMBER 15, SEED 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT ADJOIN EACH OTHER THEY SHALL BE OVER-MIRAFI 100X, STABI-LINKA * UNLESS NOTED OTHERWISE, SEE PLAN WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/100 SQ. FT.) FOR THE PERIOD OF LAPPED BY SIX INCHES AND FOLDED. WHICH CAN BE BACKFILLED AND STABILIZED WITHIN DNE WORKING DAY, WHICHEVER IS SHORTER. T140N OR APPROVED EQUAL (3) STABILIZED CONSTRUCTION ENTRANCE MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE DF WEEPING LOVEGRASS (.07 LBS/1000 TYPICAL PATHWAY CRUSS SECTION SQ. FT.) FOR THE PERIOD OF NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 12. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINDR FIELD ADJUSTMENTS CAN 4. MAINTENANCE SHALL BE PERFORMED AS PREFABRICATED UNIT: GEDFAB, 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE NEEDED AND MATERIAL REMOVED WHEN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN THE SEDIMENT CONTROL ENVIROFENCE, DR SPRING OR USE SOD. "BULGES" DEVELOP IN THE SILT FENCE. APPROVED EQUAL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. MULCHING - APPLY 1 1/2 TO TO OTONS PER ACRE (70 TO 90 LBS/1000 SQ, FT.) OF UNROTTED SMALL 13. ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO HOWARD GRAN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDI ATELY AFTER APPLICATION COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL. USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL /1000 SQ, FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIG HER, USE 348 GALLONS PER 14. ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING. (ES-1 APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE. REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND PROPOSED PATH SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED. 15. AT THE END OF EACH WORK DAY ALL SEDIMENT CONTROL PRACTICE WILL BE INSPECTED (NEAR INTERSECTION) AND LEFT IN THE OPERATIONAL CONDITION. 10-YR, WS EL. = 342.75-16. ALL SEDIMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE AGREEMENT MADE BETWEEN COLUMBIA ASSOCIATION AND HSCD AND AS AMENDED 8/1/90. INV. = 340.24 --PROPOSED EL. 342.8 GRADE 17. THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS, AND/OR 350.58 – PROPOSED RIGHTS-OF-WAYS THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, - 24 LF 30' CMP GL STREAM 6' PATH STORMWATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORMWATER ONTO DR ACROSS 16 GA. @ 1.00% *352* _ ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE WITH METAL END PROPOSED FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHT S-OF-WAYS THAT MAY BE EX. 21" RCP-SECTIONS GRADE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN. **e** 12.5% EACH END - 12 LF 18**1** 18. THE SEDIMENT CONTROL APPROVALS ON THIS PLAN EXTEND ONLY TO AREAS AND PRACTICES 350 16 GA. € 1.00% IDENTIFIED AS PROPOSED WORK AND SHALL APPLY AS IF SHOWN ON ALL PLANS. -INV. = 346.8WITH METAL END EXISTING RIPRAP-EX. 15" RCP -19. THE APPROVAL OF THE PLAN FOR SEDIMENT AND EROSION CONTROL DOES NOT RELIEVE THE SECTIONS EACH END DEVELOPER/CONSULTANT FROM COMPLYING WITH ANY FEDERAL/STATE/COUNTY REQUIREMENTS -TYPICAL EARTH DIKE PLACEMENT 348 PERTAINING TO ENVIRONMENTAL ISSUES. CONTRACTOR SHALL PROVIDE CURLEX SLOPE REMOVE APPROXIMATE 15 LF - EXISTING EX. 24" RCP - $\Gamma INV_1 = 340.0$ STABILIZATION AT ALL SLOPED AREAS CONTRACTOR SHALL PROVIDE MOUNTABLE OF EX. RIPRAP AND PLACE GROUND EXISTING TREE -ADJACENT TO CONSTRUCTION STONE BERM ACCESS PER CONSTRUCTION AT NEW LOCATION. - EXISTING TREE DRIP LINE- PROTECTION FENCE NOT TO INTRUDE DRIP LINE. GROUND (3:1 BOTTOM SLOPE) ENTRANCE SPECIFICATION BOTH TYPICAL SILT FENCE PRUVIDE 12 LF± SHA PROVIDE APPROXIMATE 10 LF-SIDES TYP Q₁₀= 26.8 cfs PLACEMENT d₅₀=12" UNGROUTED SHA (d50=9') UNGROUTED 10 LF SHA (d50=9") $V_f = 5.5$ fps RIPRAP 30' DEEP ON RIPRAP 3'± @ 1 NEAR PIPE> DRANGE BLAZE POLYETHYLENE UNGROUTED RIPRAP FILTER CLOTH. $Q_{10} = 7.7 \text{ cfs}$ MESH FENCE AND 7'± AT 4:1 SLOPE TO Q₁₀= 26.8 cfs STEEL POST-WITH 3' DEEP x 1' (OR APPROVED EQUIVALENT) MEET EXISTING RIPRAP, PLACE 15 LF SHA (d50=12*) SLOPE $V_f = 4.4 \text{ fps}$ GROUTED CUT OFF WALL. SLOPE 18' DEEP ON FILTER CLOTH. $V_{\mathbf{r}} = 7 \text{ fps}$ UNGROUTED RIPRAP PLACE 18' DEEP ON 342 WITH 3' DEEP × 1' FILTER CLOTH. GROUTED CUT OFF WALL. BRIDGE PROPOSED Q₁₀= 7.7 cfs PLACED 30' DEEP ON FILTER CLOTH $V_{r} = 5 \text{ fps}$ BOARDWALK PROPOSED PROFILE CULVERT NO. 2 PROFILE CULVERT NO. 1 SLOPE SLOPE SLOPE HDRIZ. 1'=30' TYP OR VARIES 26'-0" HDRIZ. 1'=30' VERT. 1"=3" ADDRESS CHART TREE PROTECTION FENCE VERT. 1"=3" STREET ADDRESS BUILDING TREE PROTECTION PROCEDURES 1. TREE PROTECTION FENCE SHALL BE INSTALLED AT THE DRIP LINE OF THE TREES 2. THE GENERAL CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR TREE PROTECTION. HE SHALL TAKE CARE TO PROTECT TREE ROUT SYSTEMS FROM DAMAGE INCLUDING SMOTHERING, FLOODING, AND SPILLAGE. 3, REMOVAL OF TOPSOIL OR ROOT MAT VITHIN THE TREE PRESERVATION AREA VILL SECTION/AREA LOT/PARCEL SUBDIVISION NAME COLUMBIA TOWN CENTER BRIDGE AND BOARDWALK INSTALLATION PLAN 4. FOOT AND VEHICULAR TRAFFIC SHALL BE KEPT TO MINIMUM IN THE TREE PROTECTION PLATS BLOCK ZONE TAX/ZONE MAP ELEC. DIST. CENCUS T THE FOLLOWING CONSTRUCTION ACTIVILIES ARE PROHIBITED PLACING BACKFILL IN THE PROTECTED AREA; BURNING IN OR IN CLOSE PROXIMITY TO PROTECTED AREAS, FELLING TREES IN THE PROTECTED AREA; STORING SUPPLIES IN THE PROTECTED AREA; OR CONDUCT. 9749 5 SEWER CODE 5. ALL TREES TO BE REMOVED WITHIN 50 FEET OF THE TREE PROTECTION AREA ARE TO TO BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THE TREES OR ROUTS OF THE TREES IN THE TREE PROTECTION AREA. 10/10/94 revisions DETAILS AND PROFILES *** RBA EMGINEERS • ARCHITECTS • PLANNERS no. description CERTIFICATION BY THE ENGINEER CERTIFICATION BY THE DEVELOPER CHECKED DRAWN "I/WE HERBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION JAC JMC 'I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT *...per standard Agreement with C.A. WILL BE DONE ACCORDING TO THIS PLAN AND THAT ANY RESPON-BANNEKER RUAD PROJ. NO. DATE CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN SIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDI-*J0986* 9/94 PATHWAY CONNECTION TIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE THIS DEVELOPMENT PLAN IS APPROVED FOR SUIL ERUSION ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DIS-5560 STERRETT PLACE SUITE 300 AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO 3 COLUMBIA, MARYLAND 21044 AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL 410/730-7950 DILLE DENIS A. EMS 10/18/94 MARYLAND HOWARD COUNTY SHEET

CHATSADDLE ENGINEER (PRINT NAME ALSO)

SIGNATURE OF DEVELOPER (PRINT NAME ALSO)